The American Artisan
And Hardware Record

Vol. 52. No. 13. CHICAGO, SEPTEMBER 29, 1906. $2.00 Per Year.

COLUMBUS BOLT WORKS,
COLUMBUS, OHIO.
Bolts, Rivets, Nuts, Washers, Carriage Forgings, Etc.
CATALOG AND PRICES ON APPLICATION.

American Seal"
Elastic Oil Roof Cement
Asbestos Furnace Cement
Stove Putty
Stove Lining
The very best made!
d by:
rkins Roofing & Supply Co., Western Agents,
235 Lake Street, CHICAGO, ILL.
ckhoff Supply Co., Southwestern Agents,
ST. LOUIS, MO.

TRYING to do business without advertising is like winking at a girl in the dark: you know what you are doing but nobody else does.

THE WIZARD
ADJUSTIBLE FLEXIBLE HANGER

NO Special Track Required.

Lateral and Vertical Adjustment

Swing Out and Stay On Features

and door may be placed as close to building as desired.

Each pair packed in individual box complete with bolts and nuts.

See your jobber or write us.
SAFETY DOOR HANGER CO.,
Ashland, Ohio Hamilton, Ont.

GARLAND NUT & RIVET Co. PITTSBURGH

SMALL RIVETS
FOR ALL PURPOSES

SELECTED MATERIAL
UNIFORMITY
GOOD APPEARANCE
SQUARE CUT-OFF
QUICK SHIPMENTS

SMALL BOLTS
AND
PUMP CHAIN

GARLAND NUT & RIVET CO.
PITTSBURGH, PA.

Gray Mottled Enameled Ware
White Speckled Enameled Ware

We have added several new items including large sizes in Preserving Kettles.

Catalogue and prices on application.

Star ✶ Enameling & Stamping Co.
PITTSBURGH, PA.

These Make Sales!

GET this display rack or holder FREE by sending us your business card and the name of your jobber. "Triumph" dog specialties can be displayed without fear of rust. Nothing but "A. R." (anti-rust) finish on the Triumph Kennel Chains and Dog Leads. Furnished only by

BRIDGEPORT CHAIN CO., Bridgeport, Conn.
Distributers: WIEBUSH & HILGER, Ltd., New York

OUR STEEL RANGES are full of

Red-Blooded Selling Arguments.

You Can Say a Lot For Them. They Will Do a Lot For You.

Planished Steel Bodies
Duplex Grates
Asbestos Lined
Powers Riveted Joints
All Joints Packed
14-ga. Steel Ovens
Ovens 13½" High
Take 26" Wood

THE STRENGTH OF THE BODY

No other Steel Ranges than ours will stand the test shown here—the side of the range would be torn out—unless the doors were braced from the bottom. We rely entirely upon the strength of material used in body construction. No other Steel Range body is built as strong as ours. None will wear as long.

THE FIRE BOX

The liners used in our Steel Range Fire Boxes are more durable than can be made from either fire clay or cast iron. Our liners cost three times as much as any others to make and will wear five times as long. Many sets of these liners have been in use 20 years and are good. Their average life is 14 years.

Prices Are Lower Than You Would Expect.

THE STOVE AND RANGE CO. OF PITTSBURG, PA.

Western Agency: W. D. SAGER, 38 to 40 Michigan St., Chicago, Ill.

For Small Cottages

Perhaps you have the mistaken impression that the KELSEY Warm Air Generator is adapted only for heating large residences, schools and public buildings.

But the KELSEY heats small homes—cottages of four rooms or more—just as well as it heats a palatial $100,000 residence.

The smaller sizes of the KELSEY have the same advantages as the No. 27 or No. 30—the small KELSEYS save just as much coal, and give just as much additional heat in proportion as the large sizes.

No apparatus is better adapted for heating small residences than the KELSEY. Requiring little attention, minimum repair expense, lowest possible fuel bill, and the ease with which a low fire may be carried, all combine to make the KELSEY a favorite in the small residence.

We'd like to send you our Exclusive Agency Plan.

KELSEY HEATING CO., SYRACUSE, N. Y.

New York City:
156 Fifth Avenue

Western Sales Agents:
COOK & VAN EVERA CO.
38 E. Lake St., Chicago

JAMES SMART MFG. CO., Brockville, Ontario, Sole Makers for Canada

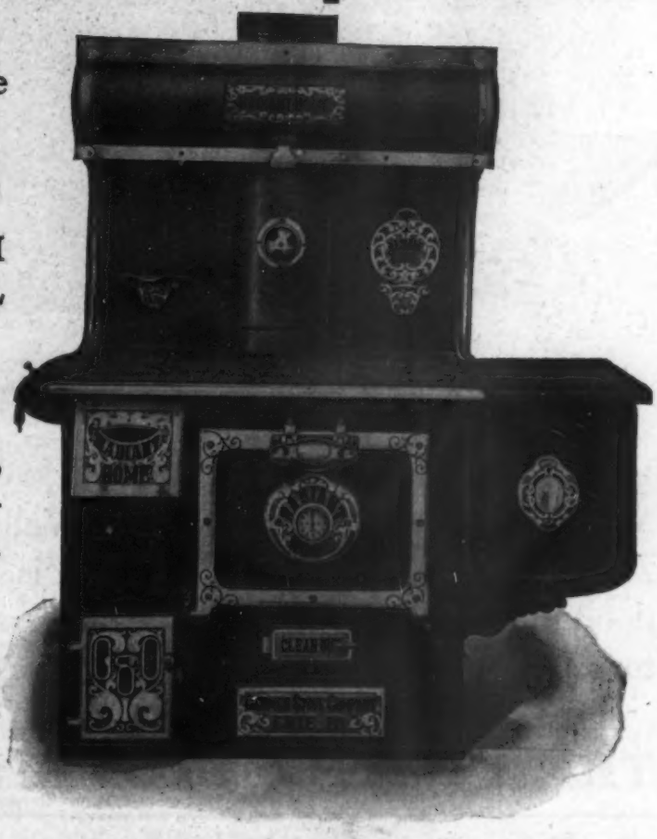
Some Radiant Home Specialties

The LATEST ADDITION to the RADIANT HOME LINE.

The LOWEST PRICED HIGH GRADE TRADE-MARK STEEL RANGE ON THE MARKET.

Key-Plate Top, Lift Broiler Door, Grates Removable Without Disturbing Linings; Thermometer.

Applications for Detail Descriptions, Prices and Agencies Solicited.



Ovens 16 inch, 18 inch and 20 inch. Griddles 8 inch and 9 inch.

The Radiant Home Force Draft Furnace

Fire Pots 22 inch, 24 inch, 26 inch and 28 inch

Original Air Blast Fire Pot, Patented Force Draft Ring.
BURNS Hard Coal, Soft Coal, Coke, Lignite, Wood.
MOST ECONOMICAL, saving fully one-half fuel during season over other makes.

Germer Stove Company

Largest Manufacturers of Strictly High Grade Stoves, Ranges and Furnaces

Main Offices & Foundries, Erie, Pa.

WESTERN BRANCH
231-247 Newberry Ave., Chicago, Ill.

FOSTER'S PEERLESS STEEL COOK

is leading again for 1906. Its points of excellence include all the best features of other brands together with the exclusive "Foster" qualities.

The body is formed of heavy Wellsville, riveted every two inches. Asbestos lined *throughout.* There is a sheet side opposite the oven door, the oven door is spring balanced and the ash pit door is arranged to swing. The reservoir is cast encased, the fire linings are heavy.

Any additional information and prices will be furnished on request.

THE FOSTER STOVE CO., Ironton, Ohio

VAN'S RANGE

Patent Improved Wrought Steel Portable

For Hotels, Restaurants. Public Institutions, Boarding Houses, and Private Families. All kinds of Hotel Implements for culinary purposes. Manufactured and for sale by

The John Van Range Company

Southwest Corner
5th and Broadway

CINCINNATI, - - - - - OHIO

"BANNER"

The Banner Quality Range is one of unquestioned merit and individuality. A pleasing combination of best material, good workmanship and art.

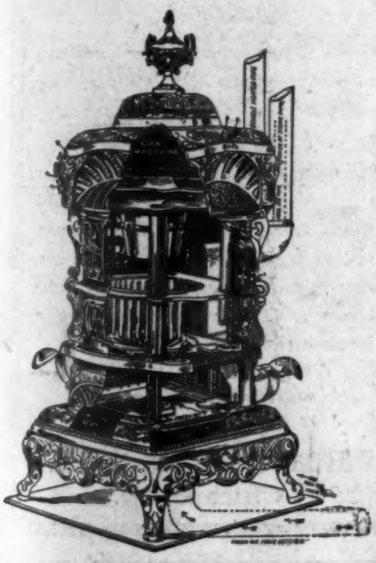
QUALITY STOVES RANGES SURE TO PLEASE

We Guarantee it to Operate Perfectly

"Exclusive finish and features" are found in our goods. Ask us for samples of advertising which we furnish free.

"SPLENDID RESULTS"

QUALITY STOVE & RANGE CO., Belleville, Ill.



"The Howe" Ventilator

The Stove of Science and Sense

It brings health into the homes.

Equals several common heaters and equalizes temperature.

The Only Stove That Ventilates

It draws pure air into the room and sends the poor air from the floor up the chimney. Write for recent reports on this *friend of indoor life.*

Our Western Agents:
COOK & VAN EVERA CO., 58 Lake St., Chicago.

GALUSHA STOVE CO., Rochester, N. Y.

"Is the retailer to blame? He probably is. Of two dealers in one town, one succeeds, the other fails."—*National Hardware Bulletin, page 19, June, 1906 issue.*

"I wish the manufacturers who advance prices would try talking quality to some of the farmers in my community. It might change their views."

Same paper, same page, same old yawp about quality not counting for anything with the farmer.

EDITOR'S NOTE: *Yawp is a Russian word indicating heap talk, little truth; it is from the same root as "Yap" (one who is always looking out for the cheapest and who believes quality don't count).*

Quality is Character! A dealer who believes that quality don't count is the one who fails.

The Aerflame is a range of Quality. Made by the Faultless Mfg. Co., St. Charles, Ill., near Chicago. Distributing Depots, Duluth, Sioux City, Kansas City, Salina and Seattle. Write to-day.

"Prisoner, the jury has declared you guilty."

"Oh, that's all right, judge; you're too intelligent a man, I think, to be influenced by what they say."

Perhaps, Mr. Dealer, you're too intelligent to be influenced by what WE say; if not, write; we can surely do your stove trade a "right good turn."

Flame Flame
Burn Smoke,
Smoke Won't
Bake Bread.
Poor Bread
Bad Name
Good Bread—
Aerflame!

THE B. RUBY RANGE

Four Hole Type

For Hard Coal, Soft Coal or Wood

Embodies all modern improvements. Has large oven, large reservoir, modern fire box equipment, and large ash pit.

A handsomely ornamented range and a perfect worker.

What is your name and address. If you sell stoves we will send you our latest catalog.

SOUTH ERIE IRON WORKS, SOUTH ERIE, PA.

The Gold Coin

All stoves have "talking points," but some of the home talk about the talking points' would break up a sunday school and look bad in type.

Gold Coin stoves have **selling points** and the selling points, reasonably well presented by dealers, do the selling and hold the buyers' trade.

No base burner is handsomer, richer or more attractive than **The Gold Coin** in its new 20th Century dress, and as a good consistent, reliable and economical worker, everybody who knows stoves knows **it has never been equalled.**

The Ventiduct Stove with a Ventiduct that is a Ventiduct.

CHICAGO STOVE WORKS
Chicago, Ill.

100 TINNERS' PATTERNS
Complete for $1.00

Sent Postpaid on Receipt of Price.

DANIEL STERN,
69 Dearborn St. CHICAGO.

The American Furnace

Combines DURABILITY, EFFICIENCY and ECONOMY—while as regards LARGE SALES there is no better furnace on the market

THE AMERICAN FURNACE supplies, correspondingly, considerably more heat with a given amount of fuel than any other furnace.

Write for Particulars

American Furnace Co.,

ST. LOUIS, MO.

Do YOU Get Your Share?

There are more range buyers today than ever before. Are you getting all the orders you should? Harder work now to make sales than it used to be, but a good, up-to-date line of ranges at fair prices and the right kind of arguments will still win.

BORN STEEL RANGES present an attractive array of valuable selling points, they are made in every required size and style, and the value we give is admitted by competitors to be exceptional.

Send for new Catalog just out.

The Born Steel Range Co.,

CLEVELAND, - - OHIO

HUB JUNIOR OAK

First, we made the HUB Oak—made it as well as an Oak stove could be made—and it was a winner. Then the trade asked for an Oak, Jr., something smaller than the regular pattern, but with the same telling HUB features—AND HERE IT IS. Three sizes, 12, 14, 17 in. firepots. Will outheat, outlast and outsell any low-priced Oak in the market.

Send for special circulars

SMITH & ANTHONY CO.

BOSTON, MASS.

1,000 Years

ago leisure moments were passed in the company of "wise fools" and Merry-Andrews. Now people read. By some people, leisure moments are moments of amusement. Other people find recreation in a small amount of study. The latter are the kind that have two horses for a one-horse buggy.

100 Tinners' Patterns

will help to buy the extra horse. Sent postpaid on receipt of $1.00. Our descriptive circular tells why it's up to you.

DANIEL STERN

69 Dearborn Street
CHICAGO

MONARCH

AIR BLAST FURNACES

FOR SOFT COAL

NIAGARA

FURNACES

FOR HARD COAL AND COKE

IF YOU HAVE NOT RECEIVED OUR CATALOGUE PLEASE SEND FOR IT AT ONCE.

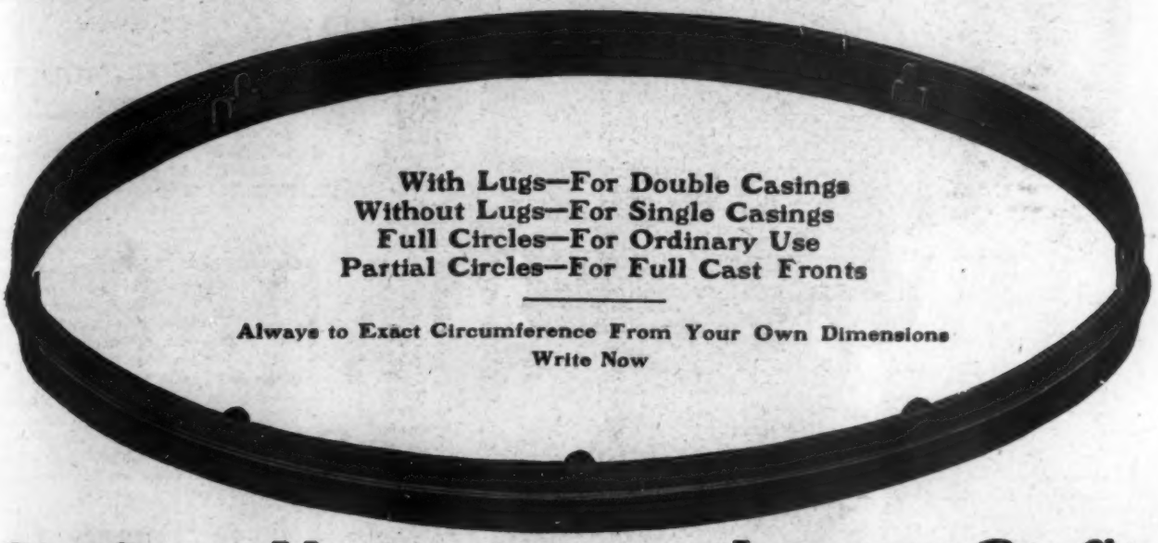
The Forest City Foundry & Mfg. Co.

CLEVELAND, OHIO

STEEL CASING RINGS

Are Made to Conform to Individual Requirements in Every Respect

Never Break — *Circles Perfect*



Ready to Use — *Increase Profits*

THE WALWORTH RUN FOUNDRY CO., 27th St., S. W., Cleveland, O.

Makers of Fine Grey Iron Castings — **Mfrs. of Semi-Steel Registers**

Shaded Sectional Cut

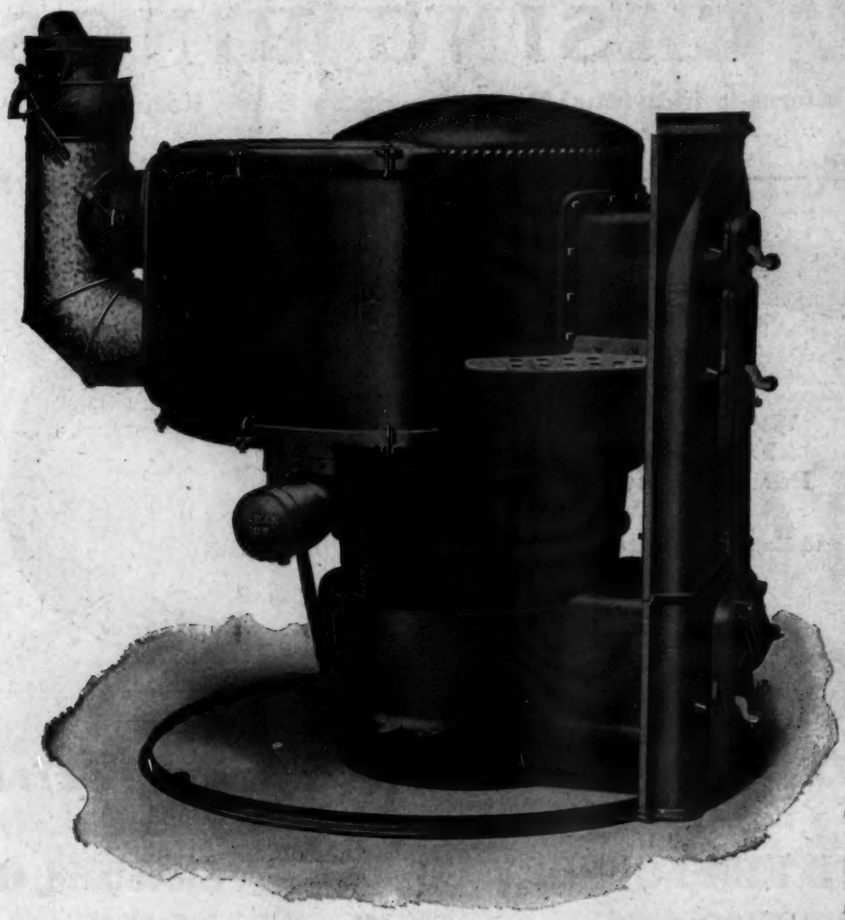
of the

"Low Down" Crown Warm Air Furnace

Designed to show the direction taken by the gases and warm air. Also the thickness and staunchness of its parts.

March-Brownback Stove Co.

POTTSTOWN, PA.



A New 1906 Model Magee Boston Heater

"B" Series

CAST-POT MODEL

The latest development of one of the most famous Magee Models. It possesses several new features that give an increase both in efficiency and convenience of operation.

The Double Feed Door with large Feed Mouth is an especial convenience. The large surface of the Revertible Flue Radiator is clearly shown, also Direct and Indirect Smoke Flue connections and clean-out opening. Every detail makes for convenience, cleanliness and fuel economy.

With the well established high standard of Magee Construction is combined a design that presents the fewest possible joints and gives ample stability to resist long and severe service.

Magee Furnace Co.

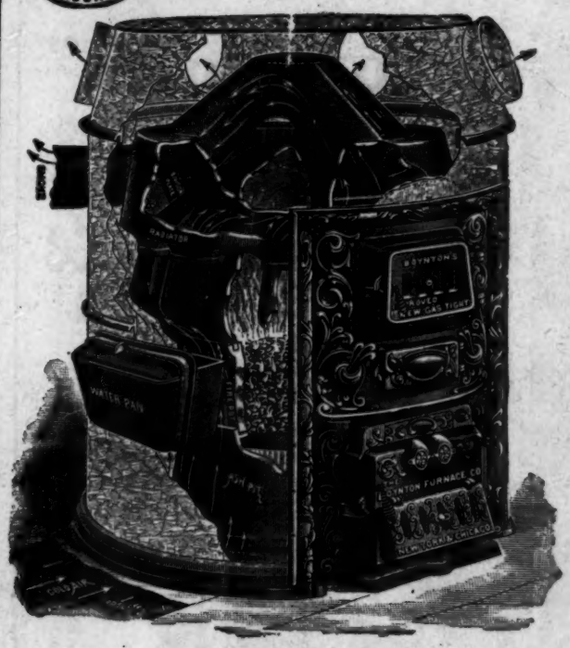
Office and Sample Rooms
38 Union Street, Boston, Mass.

Write for Catalogue and Prices to

LOTT-BURTON CO

General Western Sales Agents
86 Lake Street, Chicago, Ill.

Boynton Warm Air Furnaces, Hot Water Heaters, Steam Boilers



are the result of 56 years practical experience.

For more than half a century the **BOYNTON** line has been the standard.

We make Furnaces of cast iron, or steel, or combination of both—portable or brick set—for hard coal, soft coal, wood lignite, or any fuel, and are adapted for any climate.

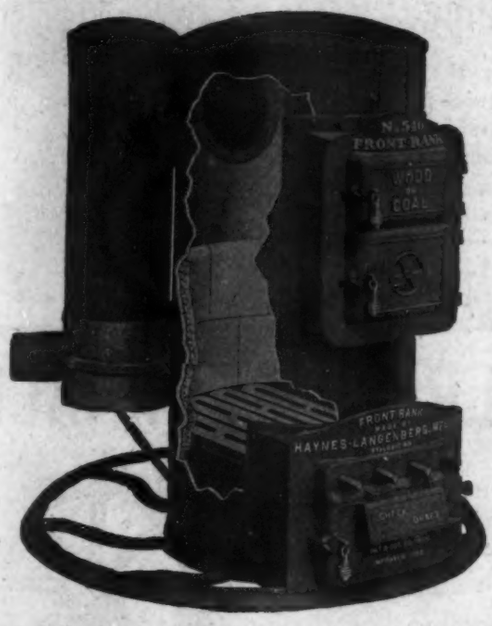
Our Steam and Hot Water Heaters Always Lead.

Write for our complete Catalogs.

THE BOYNTON FURNACE COMPANY,

147-149 Lake Street, CHICAGO
207-209 Water St., NEW YORK

For Hard or Soft Coal and Wood or Coke



REMEMBER THIS

"Front Ranks"

Are the leading Steel Furnaces

Get our illustrated catalogue and know the facts. It leads where furnaces are used. Any hot-water combination can be used in the **Front Rank.**

TESTED FOR 20 YEARS.

Be sure to see our 1906 Catalogue.

Haynes-Langenberg Mfg. Co.

ST. LOUIS, MO.

RICHARDSON & BOYNTON CO.

Manufacturers

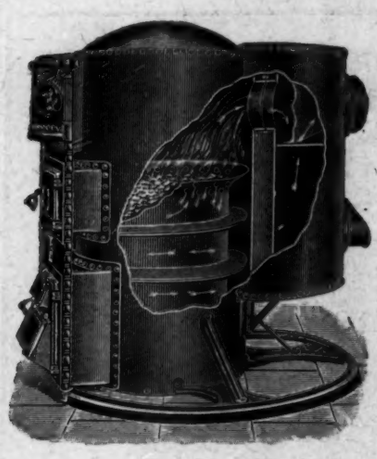
Warm Air Furnaces

Hot Water and Steam Boilers

Tank and Laundry Heaters

SEND FOR LATEST CATALOGUE

NEW YORK CHICAGO BOSTON



Great Heat Less Fuel

Burns up the gas and soot.

Weir All Steel

No gas, no dust.
It is tight.

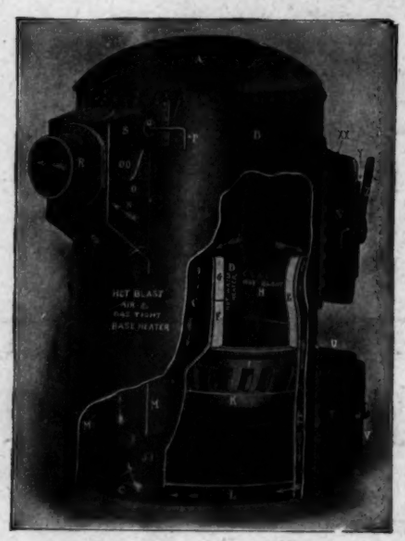
Meyer Furnace Co.
PEORIA, ILL.

Handy Furnace Pipe

is the safest made. It is easiest to put up. Its great value at small cost makes it profitable for both retailer and consumer.

F. Meyer & Bro. Co.
PEORIA, ILL.

EVOLUTION OF THE PERFECT FURNACE



The new and better way of home heating, plainly told and finely illustrated in the new Quaker Catalog No. 20.

It's yours for the asking.

We manufacture complete Heating Plants,

Warm Air and Hot Water

Offices and Exhibit Rooms:
40 Dearborn Street, Chicago, Ill.
Factory: Chicago Heights.

QUAKER MFG. COMPANY

What is a Reputation Worth?

**IF THE REPUTATION BE A GOOD ONE
IT IS PRICELESS—
IF A POOR ONE
IT IS WORTHLESS**

A good reputation in the heating business is attained only by giving your customer the very best furnace that money can buy—a heater that you know will do all that is claimed for it.

THAT IS THE ONLY KIND OF A REPUTATION FOR DEALERS TO STRIVE FOR.

The Mueller All Cast Iron, Double Radiator Furnace

has established enviable reputations for the many hundred dealers who have for years been installing them.

There is opportunity for more dealers to gain such a reputation. Do you wish to be one of them?

L. J. Mueller Furnace Co.

Established 1857
191 Reed Street X Milwaukee, Wis.

The Robinson Hot Blast.

Twenty-seven years in the warm air furnace business is the record of the

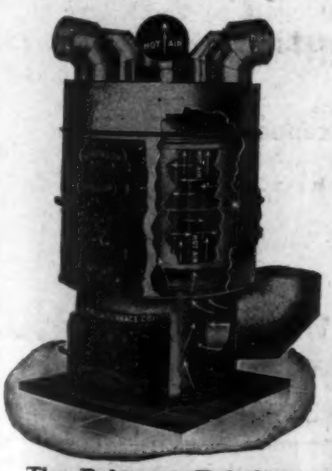
"ROBINSON"

You will find our Furnaces at both ends of the furnace world. Our **"BIG TWO"** hold the palm against all others, regardless of climate or fuel.

Robinson Furnace Co.

Established 1879.
107-109 Lake St., CHICAGO

Have you seen our New Catalogue and price list?



The Robinson Tubular.

J. F. LEWIS, Cisco, Ill., *writes:* *I cannot get along without THE AMERICAN ARTISAN.*

THE APEX FURNACE
Simple as a common stove

NO CHANCE
for the **Apex** to get out of order or go wrong.

THAT'S WHAT
furnace users want, something that they won't be afraid of. Something that any member of the family can operate successfully. All cast iron and very heavy and durable.

Write for Catalog.

COOK & VAN EVERA
38 & 40 Lake Street
CHICAGO
Western Distributors

ROOD & McINTYRE
KANSAS CITY, MO.
Southwestern Distributors

Youngstown Furnace and Supply Co.
YOUNGSTOWN, OHIO

NATURAL GAS FURNACE

The "MANEST"

will heat any house, better and cheaper and with less labor than any other system.

Write for the agency in your locality.

The MANNEN & ESTERLY CO.
Sole Manufacturers. CLEVELAND, O.

The "Manest" can also be attached to any Coal Furnace.

There Are No Better FURNACES
Than those made by the

GRAFF FURNACE CO.
of New York City

In successful use for 25 Years.

Largest variety of styles and sizes.

For Western trade we have established a warehouse and sales agency at

Decatur, Ill.
C. M. BARNETT
SALES AGENT

"WHAT'S THE USE"

of worrying what line of Gas Ranges to buy, so long as A-C-M-E spells guaranteed for quality and maintain their present high standard of excellence. No. 44 Catalog is interesting.

Western Office & Warehouse: **H. ADLER CO., Carnegie, Pa.**
1225 W. 10th St., KANSAS CITY, MO. **Manufacturers of ACME Gas Appliances**

BOOMER FURNACES

Quickly Establish a Local Reputation

It is always a little hard to introduce an old Furnace in New Territory.

But the first BOOMER Furnace you sell will pave the way for an unlimited profitable furnace business.

It is likewise better to take an old, time-tried furnace like the BOOMER, and sell it in new territory, than to continue selling, or endeavoring to sell, a Furnace that does not "stand up" the way you would like to have it.

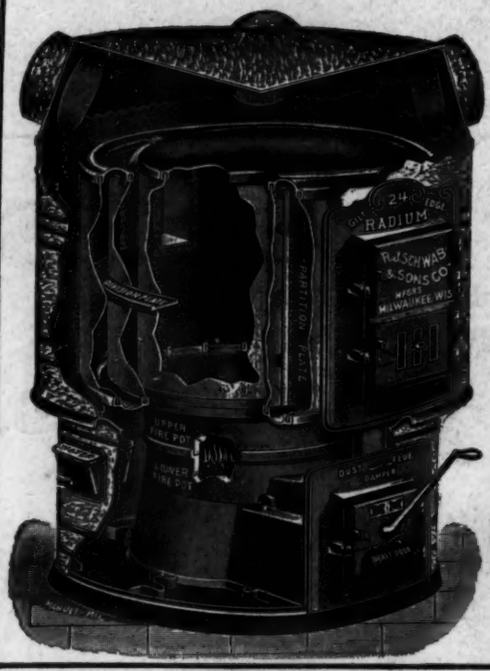
The BOOMER Furnace is one of those always-reliable, sure-to-give-satisfaction commodities that is a genuine pleasure to sell.

The BOOMER Agency, remember, has attractive inducements.

We'll gladly send you our Furnace catalogue upon request.

The HESS-SNYDER COMPANY
Manufacturers **MASSILLON, OHIO**

THE GILT EDGE RADIUM



has been studied out with a view to **practicability** and **comfort** in every detail.

The air entering at the front in the **Gilt Edge Radium** is controlled so as to give greatest **Uniformity of Heat in the Fire-Pot.**

Greater efficiency cannot be found in any other "Horse-Shoe" Furnace.

See Our Catalogue

R. J. Schwab & Sons Co.
THE FURNACE MEN
MILWAUKEE, WISCONSIN

JOHN H. ROBERTS,

Writes: "I consider **The American Artisan** a great help to any tinner or any man in business."

MUNHALL, PA.

The Most Particular

customers are satisfied when using a "THATCHER" Tubular Furnace.

The TUBULAR Furnace is easily operated, and has no delicate or complicated parts to get out of order.

In fact it is so durable that it will outlast six to eight ordinary furnaces—and with a great saving of fuel.

It will pay you to write at once for latest prices and catalogs.

56 Years on the Market.

THATCHER FURNACE CO.,

116-112-114-116 BEEKMAN STREET
NEW YORK

PROGRESSIVE DEALERS

Stanton Upright Steel

Notwithstanding the fact that Manufacturers who are not equipped for making a steel Furnace are using every effort to prevent it, progressive dealers are rapidly getting in line with the fact that STEEL FURNACES when properly constructed are a great improvement over the old cast iron kind.

We are pioneers in the manufacture of Steel Furnaces, and our long experience puts us in position to offer you the best.

Write for prices and description of our full line.

THE STANTON HEATER CO.

MARTINS FERRY, OHIO

FLORAL CITY FURNACES

are as easily managed as an ordinary stove.

They will **burn Hard Coal, Soft Coal and Wood Equally Well.**

Our Furnaces are recognized as the **most reliable** on the market.

No Dealer Should be Without Them.

Send for our latest CATALOGUE

MONROE FOUNDRY & FURNACE CO.

MONROE :: :: :: MICHIGAN

ANDREW SNYDER, ALDEN, IA., WRITES:

"I would be lost without

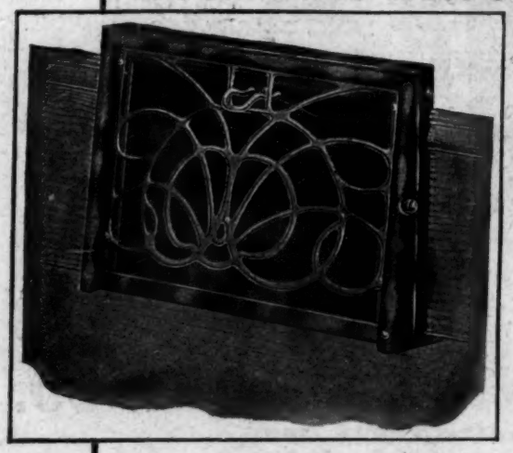
THE AMERICAN ARTISAN

Every hardware dealer and especially every tin and sheet metal worker should not be without it."

An Addition To The MUELLER Line

The Mueller cast iron wall register has proved such a success during the past, that we have just added the

MUELLER WROUGHT STEEL WALL REGISTER



This register possesses advantages over all other special wall registers.

Positively No Breakage.

Great saving in freight, due to lightness of register.

Advantages mentioned in special circular. Shall we send it?

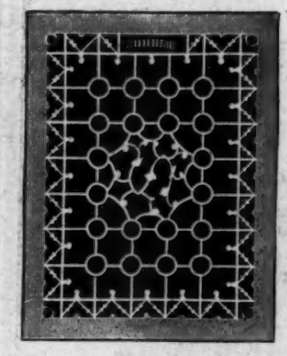
PROMPT SHIPMENT

We also manufacture a complete line of Floor Registers.

L. J. MUELLER FURNACE CO.

ESTABLISHED 1857

191 REED STREET MILWAUKEE, WIS.



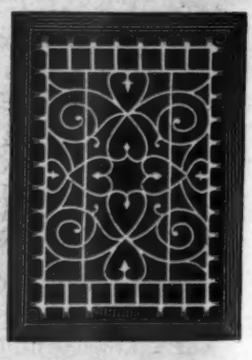
REGISTERS

All cast warm air Registers, neat in design and of superior finish. Are interchangeable with all first-class makes.

Remember we do not belong to the Association. Are in a position to quote lowest prices and can give Prompt Delivery.

Our Own Foundry! Unlimited Capacity!

Write for catalogue and discounts.



STANDARD REGISTER CO., :: Cleveland, Ohio

Register Department of The Standard Foundry & Mfg. Co.

REGISTERS : FACES . BORDERS

in every conceivable style, shape, design and material, made by

THE FERROSTEEL CO., Cleveland, Ohio

FERROSTEEL CAST—Mechanism and Finish Perfect, Designs Artistic and Attractive.

FERROSTEEL MODIFIED STEEL—Face Cast, Bottom Wrought Steel, Air Capacity Large, Designs all Styles.

FERROSTEEL WROUGHT STEEL—The most rigid made. Air Capacity greater than all Other Plain Lattice Wrought Steel Goods.

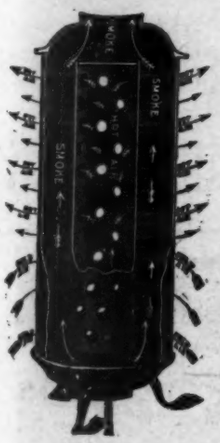
New Catalogue Just Out—FREE. Prices Rock Bottom. Our Record is Our ☞

Persistent Superiority
Persistent Superiority
Persistent Superiority
Persistent Superiority
Persistent Superiority
Persistent Superiority

A Word to the Stove Merchants

We have sold more good Stove Polish for Stove Dealers' use in 5-lb. cans the past thirty days than all the other Stove Polish manufacturers combined. The Black Kid is the best and blackest of any Polish made.

5-lb. Cans
1-lb. Cans
½-lb. Cans
10-oz Liquid
Bulk in Bbls



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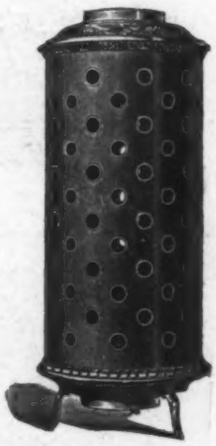

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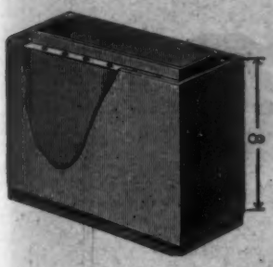

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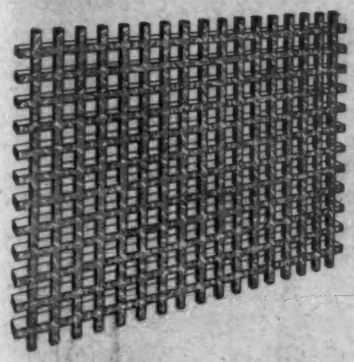

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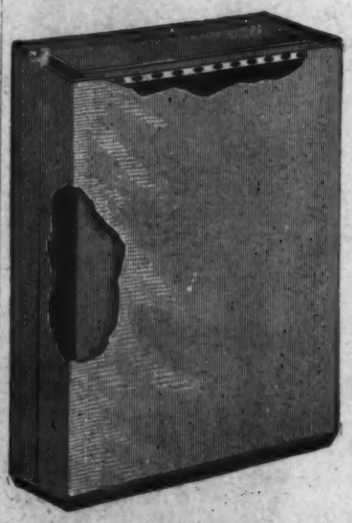

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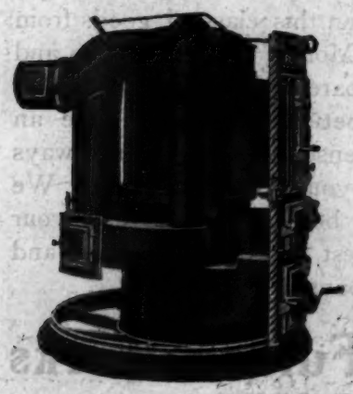

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ESTABLISHED 1880.

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Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

PUBLISHED EVERY SATURDAY.

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THIS PAPER IS A MEMBER OF THE CHICAGO TRADE PRESS ASSOCIATION.

CHICAGO, SEPTEMBER 29, 1906.

Notice is hereby given that Walter F. Wollensak, *alias* W. F. WALLACE, is no longer in the employ of The American Artisan, and is not authorized to receive or receipt for any money for this journal.

The Tin Roofers' Blunder.

Tin roofs have been laid and have been held in high esteem practically ever since tin plate came into being as a practical commodity. They have always been regarded highly, because of their fire resisting, water shedding, cleanly and enduring qualities, and nothing has ever stood in the way of their universal use save the item of their cost as related to shingle and other cheaper forms of roof covering.

Tin as a roof covering has never been discredited until quite recently, when a sharp reaction set in. The causes are in no way attributable to a lack of merit in tin roofs in the abstract, but to conditions that have arisen in the roofing trade and methods of securing and handling contracts or orders. The coming into the market of other forms of acceptable roofing that in addition to a merit of cheapness in cost of both material and application were in the hands of practical business men, who skilfully pushed them by correspondence, personal solicitation, generous advertising, and other methods of popularization, naturally this cut into the demand for tin roofs and as whatever was thus cut out of the market reduced the tin roofers' field of operation correspondingly, and a fierce competition for business ensued, during which profits were destroyed, quality in materials and workmanship were sacrificed to the last degree, and vicious methods of competition were put into practice among rival tin roofers the reactionary features of which were such that its culmination could not fail of disaster to all concerned. With other resources at an end roofers began to vigorously attack the quality of each other's roofing plate; justly, no doubt, in some cases, owing to the degraded condition of the cheapest brands that upon occasion were resorted to, but wholly unjustly and untruthfully as to others; the best suffered along with the worst, and in the attack and counter attack the laws of progression naturally prevailed and soon practically the entire tin roofing craft was involved in a scandalous and ridiculous campaign of backbiting and lies that threw a blight of suspicion over every known brand of roofing plate and the tin roof in the abstract concomitantly. What a foolish situation is here presented.

Like that snake that bit its own tail and swallowed itself inch by inch until there was nothing at all left to show that his snakeship had ever existed, the tin roofing industry begun to swallow itself.

As a result the tin roofing business is, as it were, "on its uppers". Outside roofing interests in felt, slag, tar, rubberoid, and other things are not slow in appreciating the opportunity, and a general cry is sent up and sediously egged on against the quality of American tin plate in general.

"The horse is stolen" and the entire tin roofing industry is looking for the key to lock the barn. The real facts that underlie the situation are these. The tin roof was always an excellent proposition and it is as good a proposition to-day as it ever was in its long history. There was never any better tin plate made in the world than is now made in America. All tin plate is not alike in value and quality. All American tin plate is not alike. All American roofing tin plate is not alike, and the error herein chronicled lies in the matter of selection, the failure to adapt proper means to ends. Tin roofers have prostituted their calling by a shameless selection and use of materials that they knew were unfit for the purpose for which they were used, and by damning by misrepresentation that which they knew possessed the standard of excellence in the "dog in the manger" battle for patronage.

Tin masters are not blameless for the condition now prevailing. Ordinary foresight would, it would seem, have disclosed the outcome of such vicious measures as were pursued in the tin roofing business. Ordinary calculation would have foretold disaster to tin makers in an inevitable collapse of the roofing plate market if a continuance of worthless tin roof making was allowed. In its present crystallized and unified form the tin industry of America is and has been in a position to regulate this matter and to preserve the tin roofing industry from threatened extinction. If the conditions have been such that less tin must have been expected to go into roofing they should have known it and regulated the volume and the quality of their roofing output to the end of conserving a distinctly valuable interest in their own behalf. There will always be a good tin roofing industry in America, and there will be as good tin roofing plates to be had as the world ever knew and of American manufacture. Evidently a readjustment in the affairs of the tin roofing industry is essential to its future preservation. Likely this will come in self-regulating measures.

Indeed the advance action in such a movement is to be found in the discussion and in the adoption of ringing resolutions by the National Association of Master Sheet Metal Workers at their recent convention at Indianapolis, and in subsequent action by the

association in the direction of gathering accurate roofing data for promulgation from all possible sources, the information desired being along the lines herein indicated.

The relative value of good tinplate, and slag, tar and gravel, and other composition roofings.

Actual cases of the durability of good tin, shown by old tin roofs in good condition to-day.

Cases where copper and galvanized iron have proven unsatisfactory and been replaced by tin.

Cases where tar and gravel and other composition roofings have caused trouble from fire within or without the building.

Anything of interest that will persuade the honest owner to use good tin.

Whatever effort is made in this direction by this society is wholly worthy of a full measure of encouragement by all interests involved, as the movement is certainly the correct one to the end directed, and it behooves every tin roofer to enter into correspondence with President Edwin L. Seabrook, Philadelphia, Pa., who is directing the inquiry.

If the business is crowded it will eventually prune itself to proper proportions. If through competition with other classes of roofing or for other reasons the volume of roofing to be done in tin is lessened the trade should adapt itself to the changed conditions and endeavor through honest effort to regain the good name of the tin roof. With judicious and honest handling and with the proper appreciation and substantial encouragement of American tin makers the industry may not only be preserved, but may be put upon a better and more profitable footing than has been its lot for many years. Nothing in roofing is more meritorious in all ways than a tin roof correctly made and laid and containing absolutely good materials. It can never compete in price with a straw thatch, a sod thatch, a rag covering or even a shingle roof; it is not expected to do so. Honest work and fair profits will recover its good name, and proper methods of popularization will no doubt place tin at the top of the list of desirable roofing.

The Stove Price Situation.

SWEEPING aside certain individual considerations that are of but local import other than to fruitlessly prolong argument, there remain but two vital points for consideration in the proposition making for a general advance in the price of stoves at the foundry, namely, the influence of such action as it relates to the trade of the manufacturer individually considered, and the influence of the same action, as it relates to the business welfare of the retail stove merchant, individually considered.

Now to the end that both of these two stated parts of the proposition may be duly and fairly considered, let us bring them up into the light and carefully examine them both, separately and conjunctively.

For more than a year past iron and every other item used in the making of stoves has increased in price, steadily and repeatedly. The margin of profit in stove-making is much lower than it should be, and because of such increases in costs of making as had occurred up to that time, it became a positive necessity that the price of stoves must be increased to preserve any profit whatever for their makers, action was taken in December last and the price of all stoves was advanced only five per cent, in spite of the fact that market conditions clearly indicated future advances in the costs of all supplies that would quickly absorb the gain secured in the increase in price decided upon. What was then indicated as a future possibility in the continued increase in the cost of stoves at the foundry, now presents itself as hard, crystallized fact, and in cold figures quite beyond the December calculations, and to-day finds the slight gain of five per cent in prices of stoves secured in the December action, more than absorbed in the ruling markets for all kinds of stove-making commodities, and an even more threatening outlook for immediate future costs of materials is apparent than was presented in December last. During a year past, dating from the present writing, the actual advance in the cost of stoves at the foundry has been between thirteen and fourteen per cent as correctly averaged from fresh computations gained from some of the best informed computers of stove costs in various sections and with due consideration accorded to large and moderate outputs, which do not vary greatly under any conditions when all well understood contingencies are weighed. In the action of December last five per cent of this has of course been recovered, but the remaining eight or nine per cent is not only bitten out of the manufacturer's profit, but the failure to recover it by marking up the goods has held the actual value of stocks of stoves already in the hands of retail stove merchants down to a level of approximately ten per cent below their real selling value to them.

The real bugaboo among stove makers when advanced prices are under consideration, is the fear that some other maker whose stoves cost the same but who contents himself with a slightly inferior profit may not come up to the line of advance, and may, therefore, endeavor to cut into the trade of established patrons, and, no doubt, there have been occasions when this plea was a valid one, but with conditions such as have existed for a year, and exist right now, this argument lacks force, for the reason that no manufacturer is exempt from the full measure of the increase in cost, hence the relations of all remain unchanged and it is a matter of fact that a number of concerns that have been looked upon with suspicion in this exact direction, have found it necessary to step right out and increase prices by independent action in order to save their limited profits from utter extinction.

A logical consideration of the whole matter as it presents itself to-day, brings unerringly these results. Because of an increased cost that curtailed profits greatly, a general advance of five per cent was necessitated and was made by stove manufacturers, in December last. No disarrangement of trade relations resulted and since that date regardless of most unfavorable weather conditions, buying at the advanced price by retailers has been freer than has been known for the same period for a number of years. If an advance in the price of stoves was then justified by the then existing cost conditions, a like advance is more

than justifiable now by the cost conditions that now prevail. THE AMERICAN ARTISAN treated this matter editorially in its last issue from the manufacturers' standpoint and showed just what the advanced costs of materials were and to what extent by percentage each article had been increased in cost, so there is no lack of concise information in the trade regarding what should be done. Already the southern stove manufacturers have made a general advance of five per cent in prices of stoves. Louisville makers have done likewise. Eastern Pennsylvania makers have done likewise, and many stove manufacturers in different parts of the country, acting independently, have withdrawn quotations and increased all prices five per cent. Maryland and Virginia manufacturers, acting together at a meeting in Baltimore, advanced prices five per cent on September 28th.

If there is any really valid excuse for the delay in making the advance in stove prices general it has not been disclosed to us. We are now in close touch with the stove-making industry of the entire country upon this very subject and have a mass of correspondence that has come to us in relation to the question of an immediate increase in prices, from all classes of stove manufacturers, from the greater, to the lesser in capacity, wisdom and experience, and by these we are assured of the positive necessity of an immediate advance in stove prices at the foundry, to an extent of not less than five per cent. That this is a practically unanimous sentiment among the stove manufacturers of the country is evidenced by the fact that in the vast number of responses to our inquiry the dissentors may be counted upon the fingers of one hand. The advance in stove prices has already begun. In behalf of both manufacturers and retailers let the action be made complete and unanimous.

As to its effect in the affairs of the retail stove merchant, the proposition to increase the price of stoves slightly is practically devoid of complexities. At this time his stove stock is pretty well in, or is covered by orders therefor, and these goods will not, of course, carry the increase in prices, but instantly, in event of an increase in prices, everything in his stove line on hand and contracted for, increases in value. The country is prosperous to an unexampled degree; crops are wonderfully abundant and profitable; there is plenty of money in circulation everywhere, and retail buyers are prepared to pay better prices for everything than have heretofore prevailed, and moreover the best argument the retail merchant can ever bring forth in negotiating sales is the firm and advancing market. Stability in home competitive costs and prices is the prime desideratum of the methodical and successful retail merchant, to an extent regardless of exact equality thereof, in the local competing field, minor inequalities in costs being readily overcome by skillful methods of merchandising, so long as the relative competitive situation remains unchanged. While this is true as to goods of quite staple character, it is essentially true as to stoves, which have in themselves widely differing elements of competitive character. Almost universally the retail merchant controls for his field of operations, the makes of stoves he carries, and thus through a preserved identity of wares, he is enabled to push his stove specialties without much interference and build up a patronage for them, of such proportions that no trifling increase in cost to him will induce him to abandon so long as the relative cost conditions between his goods and his neighbor's remains unchanged.

In another part of this issue this subject is taken up in connection with extracts from letters from representative stove manufacturers.

IRON WARDROBES IN GERMANY.

A German firm is achieving success in the sale of wrought iron wardrobes. They are supplied in four different sizes. The great advantages the wardrobe possesses are extreme durability, convenient ventilation and cleaning, and ease of transportation. The door is made of wire netting, and as the top slopes obliquely, the contents are visible at all times.

NEW IRON AND COAL BEDS.

From recent consular information we learn that it is quite generally believed throughout the North that the region in the vicinity of Hudson Bay is destined to become more famous for its mineral wealth than either the Yukon, British Columbia or the new Eldorado at Cobalt. There has also been, and for some years past, an impression prevailing in that region that coal existed somewhere on the Hudson Bay slope. This has lately been verified by the finding of extensive anthracite beds in the neighborhood of Albany river, a stream which forms the dividing line between Ontario and Keewatin. The full significance of these discoveries can only be realized when they are considered in conjunction with the vast deposits of iron ore throughout the northern part of Ontario.

GROWING IRON.

According to a paragraph in Knowledge, the Franklin Institute has awarded a gold medal for a new process by which iron can be made to "grow." The process is said to consist in several times heating the iron to a certain critical temperature and cooling it between times, whereby the astonishing result is obtained of increasing the iron to nearly half as large again. It is reported that two identical castings were made, and one reserved for comparison, while the other was subjected to this new treatment. One side of each was machined and polished so that examination of the grain and structure might be made, but little difference could be discerned except in point of size, which was very marked. The weight of the swelled casting was identical with that of the one with which it was compared, but in all other respects the metal appeared to be of similar character. After this one is not surprised to learn that important practical applications have already been found for the remarkable discovery; indeed, new uses suggest themselves instantly to the mind. The story is so extraordinary, however, that it may be accepted with some hesitation until confirmation is afforded.

For an Advance in Stove Prices

THE COST AND THE PRICE OF STOVES.

For several weeks the market signs, together with a noticeable uneasiness among stove manufacturers in regard to the rapidly advancing cost of all classes of stove making materials, has indicated a coming general advance in prices of stoves at the foundry. Believing that such a move could hardly be avoided, and also believing that if possible the real facts in the case should be laid before the retail stove trade of the country in advance of promised action for the consummation of an increase in price THE AMERICAN ARTISAN addressed to all stove manufacturers in the country the following explanatory and interrogatory letter. Following this there was published in our issue of September 22 an editorial relating to the situation under the heading, "The Cost and the Price of Stoves."

Responses have come to us from a little more than four-fifths of the stove manufacturers addressed, and all states are represented in the replies. A very impressive unanimity pervades the entire correspondence as to the necessity for an increase in prices, a prompt increase in prices, and an increase of 5 per cent. There are some variations in replies to questions 2 and 3 of our letter shown herewith, but a very great majority stand for a 5 per cent increase and immediate action. With one exception none favor an advance of less than 5 per cent. We would like to publish all the letters and append the writers' names but lack of space forbids the former and our definite promise not to disclose the names of writers forbids the latter. Following is our letter:

"Gentlemen:

"In view of the very substantial aggregate advance in cost of all materials and supplies used in the manufacture of stoves, of the details of which you are doubtless informed; the necessity for an increase in the price of stoves seems apparent.

"With a view to editorial treatment of the subject that will prepare retail stove dealers for such action as seemingly must come in the matter of a general advance in the price of stoves, THE AMERICAN ARTISAN is by this means seeking information from stove manufacturers on the subject as stated.

"Will you kindly favor us promptly with a letter giving your views and therein embody replies to the following questions?

"1. Do you think an advance in the price of stoves necessary?

"2. How much in percentage should prices be advanced?

"3. Should the advance in prices be arranged now?

"4. What (in percentage) is the increase in cost of stoves within the last twelve months?

"Your name will not be made use of in any way in this connection."

From Illinois.

To THE AMERICAN ARTISAN:

Your inquiry at hand with reference to our views as to the necessity of an advance in prices of stoves, owing to the increased cost of manufacture.

It is unnecessary to call the attention of such close observers of market conditions as yourselves to the increases that have occurred during the past number of months in many grades of material. As you are, of course, aware, there was a 5 per cent advance in stove prices made last fall. In our opinion, the advance at that time was not great enough, and should have been 10 per cent, instead of 5 per cent. The increased costs really necessitated a 10 per cent advance, and if that had been made, it probably would not have been necessary to make a further advance this year.

We have made a careful computation of the increase in cost, and we know the cost prices are so near the net cash received for the goods that there is really little profit in the business. We feel it is necessary that an advance in selling prices be made, of approximately 5 per cent. Costs have increased during the past twelve months close to 15 per cent.

From Pennsylvania.

To THE AMERICAN ARTISAN:

In reply to yours of September 16th, asking for our views, we would say that the steady advanced cost of material seems to render an advance in the price of stoves absolutely unavoidable, and we believe an advance is fully and entirely justified at this time.

From Ohio.

To THE AMERICAN ARTISAN:

Replying to yours of the 15th, we beg to advise you that our views as regards questions 1, 2, 3 and 4 are as follows:

First—We certainly do think an advance in the price of stoves is necessary.

Second—Certainly there should be an advance of 5 per cent at the present time and another 5 per cent advance January 1.

Third—The advance in price certainly should be arranged at once, as in the writer's opinion, this is just the time to put on an advance, and not later in the fall.

Fourth—The increase is fully 5 per cent.

From New York State.

To THE AMERICAN ARTISAN:

Your letter to our company under date of September 15th is received. I feel so deeply interested in the importance of the questions that you advance that I make bold to write you a personal letter on the subject.

After a careful investigation, based upon an extended inquiry by correspondence with many of the trade, and covering a wide extent of territory, I have reached the conclusion that an advance in the selling price of cooking and heating stoves is most generally recommended.

It is universally admitted that the advance made during the present year has entirely been absorbed by the increased cost of all material, as well as the increased wages in every department. It has been stoutly maintained by careful observers in the craft that an advance will be absolutely necessary to make the year 1907 at all remunerative; and it goes without saying that such an advance can more easily be put in force and maintained this fall, while business is active and the demand greater than the immediate supply.

In computing the cost of manufacturing stoves, we have

been apt in the past to base our assumption mainly on the price of pig iron. This rule, if applied at the present time, would be, to a great extent, misleading; for the value of the pig iron used in the construction of a stove represents the minor portion of its cost, as the wages paid for labor in constructing the stove make the major portion of the valuation. In calculating the present cost of labor, the demand for shorter hours must be considered, as well as restrictions placed upon the output of the individual worker; for these conditions tend greatly to lessen the producing power of present facilities, thereby increasing the ratio of general expense.

To sum up the case, can it be admitted by any reasonable mind that the stove of the present, with all its improvements and embellishments, when compared with the stove of a few years ago, and considering its cost of production, is too high in price for the present purchasing power of the public?

In these latter days, few, if any, stove manufacturers have made large fortunes in prosecuting their business; in fact, the profits in the business have never been sufficiently large to make those interested abnormally rich; and many of the older members of the craft can recall the severe times of depression which but a few years since swallowed up any surplus which may have been accumulated and threatened the existence of many a strong and successful organization. In the fullness of time such conditions must necessarily occur again. The time is now ripe to prepare for such an emergency; and without prejudice to the interests of our customers, we are fully justified in taking a position which is both reasonable and warranted.

From New York State.

To The American Artisan:

Replying to your several inquiries in your letter of the 15th, would state, first, we think an advance in the price of stoves, if not necessary, is fully warranted by the increased cost of material and, in many instances, of labor.

We figure the increased cost at about 7½ per cent in 1906, as against 1905, computing iron at the price quoted to-day, which is clearly an advance of $4.00 per ton. We believe the advance in prices should be arranged now, to take place later on in the fall, so late as not to materially interfere with the arrangements of the dealers this year, but with a view of its being enforced in the year to come.

From Ohio.

To The American Artisan:

In view of present conditions with pig iron and sheet iron showing an advance of something like 35 per cent, it would seem that stove manufacturers should advance at least 5 per cent, and 10 per cent would be really about the right figure.

We consider that an advance is necessary, and our thought is that the advance should be 10 per cent.

We should favor an immediate advance, because if a change is announced to take place later on, there are always a number of stove manufacturers who are most ready to go out and take business for future delivery at old prices. This is a hardship upon the dealer who feels he is entitled to the necessary advance, and we certainly think we are entitled to it at this time.

We figure that our increase in costs during the past twelve months is from 7½ to 10 per cent.

From Ohio.

To The American Artisan:

Replying to your letter of the 15th will say that we consider an advance in the price of stoves necessary in our case, and perhaps generally, as manufacturers have been selling on too close a margin to absorb all the increase of cost of manufacture without raising the selling price. An advance of 10 per cent would be justified, but it is likely that not more than a 5 per cent increase can be arranged. It should take place or go into effect immediately. We should say that the increase in the actual cost of materials and labor in the past twelve months has been from 20 to 25 per cent.

There is no prospect of iron being lower in price for many months, therefore any advance should be of sufficient amount so that another will not need to be made the first of the year or at some later date.

From Illinois.

To The American Artisan:

Answering your inquiry of Sept. 18th relative to the present cost of stoves as compared with a year ago, would say that if the present market conditions continue the present selling price must necessarily be advanced. This advance should be at least 5 per cent. This advance should take place inside of the next thirty days, provided, of course, that the present market conditions continue. The increased cost of manufacturing stoves at this time is a trifle over 5 per cent, as we figure it. The following advances have taken place on the leading materials used in the manufacture of stoves during the past twelve months:

	Per cent.
Pig iron	23⅞
Steel	13
Copper	10
Nails	31-0
Tin	21½
Coal	10
Coke	5
Lumber	12
Asbestos	75

These advances, with that of labor, which is continually changing in the different departments, is increasing the cost of material and makes it absolutely necessary that more money be got for goods if these conditions continue.

From Indiana.

To The American Artisan:

In reply to yours of the 18th inst., beg to say, we think prices should be advanced, said advance to become effective as soon as the matter can be thoroughly canvassed and fully understood by all members of the Western Association. We are in favor of early action.

While increase in cost varies, our judgment is that a general advance of about 5 per cent would cover cost increase during current year. On our goods increase in cost ranges from 6 to nearly 10 per cent. The last named, or larger per cent, being due to a revision of molding prices on certain lines, which is, of course, out of the ordinary.

From Illinois.

To The American Artisan:

Replying to your inquiry of the 18th inst., we would say that we certainly think an advance of 5 per cent in the price of stoves is justified in order to cover the increased cost during the present year.

We also think that this advance should be made at an early date.

From New York State.

To The American Artisan:

The present market values of materials, labor, etc., entering into the cost of stoves are at least 10 per cent greater than they were one year ago. Part of the advance in the cost has been covered by the advance of 5 per cent made in our selling price last December. Another advance in our selling price is absolutely necessary in order to cover the increases in cost as they exist to-day, and should take effect as soon as possible, and should be sufficiently large to cover the additional costs at the time the advance is made with a reasonable profit added. If such an advance is not made, we predict that the average profits of stove manufacturers for 1906 will be even less than they were for 1905.

From an Eastern Manufacturer.

To The American Artisan:

We are in receipt of your favor asking for our views as to the necessity for an increase in the price of stoves, be-

cause of the advanced cost of raw materials. In reply we would state:

1. We certainly do think that the stove manufacturers would be justifiable in making an advance in prices. Unless they do we are of the opinion that their profits at the end of the year will be much smaller than they hoped for.

2. The large increase in the price of pig iron and coke and some other articles used in making stoves would seem to warrant an advance of about 5 per cent.

3. If any advance is to be made at all it should be made now and put into effect at once.

4. We, in common with most of the manufacturers in the country, made an advance in price January last, ranging from 2½ to 5 per cent, so that the additional advance of 5 per cent would, in our judgment, only cover the actual increased cost of manufacture.

From Ohio.

To The American Artisan:

Replying to your favor of the 18th would say, it looks as if an advance in the selling price of stoves is an absolute necessity.

The cost of production has piled up more rapidly in the last few months and we believe that 5 per cent advance, at least, should be made and that this advance should become effective in October, and with this additional advance we do not believe that percentage profit to the manufacturer will be as great as a year ago.

From Pennsylvania.

To The American Artisan:

In reply to your questions beg to answer same to the best of our knowledge.

Answer No. 1. Will say that we consider an advance absolutely necessary.

2. According to our cost sheet we believe the advance should be nothing less than 5 per cent.

3. We believe the advance should go into effect at once.

4. The advance in cost on our line has been about 4 per cent, and in case of several of our ranges, which have considerable nickel trimmings, the advance is pretty close to 5 per cent.

We believe the manufacturers ought to get together and make a general advance, which, as stated above, is absolutely necessary,

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From Ohio.

To The American Artisan:

Yours of the 18th inst. we have and will answer your questions as follows:

1. We think an advance in stoves necessary.
2. Five per cent.
3. Advance in price should be arranged now.
4. About 3 per cent.

From Illinois.

To The American Artisan:

Replying to your favor of the 18th, we will do our best to answer same intelligently. The first question, we think that an advance in prices of stoves are very necessary. We find all material that goes to make up stoves, as well as labor, has advanced at least 6 per cent, and we think 5 per cent advance will be no more than right and justice to the stove manufacturers. While we think the prices should be changed now, we believe it would work a hardship on the small buyer who has not been in a position to place his order, therefore prefer to stand a little loss ourselves and give them until about Nov. 1st before we advance the prices in general. We find the increase of cost of manufacturing stoves the last twelve months has advanced fully 7 per cent all in all. We feel it is only the foundries that have their stock in of different articles that are able to make stoves a profit at all now.

From Kentucky.

To The American Artisan:

Replying to your favor of the 16th: Question 1, Yes. 2, At least 5 per cent. 3, Yes. 4, The increase in cost by reason of constant advance of all classes of labor employed in a foundry, the advance of $4.00 per ton in pig iron and $1.50 per ton in coke, and all other items entering into the cost of stoves, coal, sand, cartage, in fact all supplies of whatever nature most emphatically demand that an advance be made in stoves and ranges to cover these increased costs.

From Missouri.

To The American Artisan:

Replying to yours of the 15th we would make the following answers:

To your No. 1—Yes.

To your No. 2—10 per cent over Sept., 1905.

To your No. 3—At once.

To your No. 4—8 to 12 per cent over Sept., 1905.

Common labor has advanced from 25 to 30 per cent.

From New York State.

To The American Artisan:

Replying to your letter of Sept. 15th, would say that we think it absolutely necessary for manufacturers in order to protect their own interest should raise the wholesale price of stoves at least 5 per cent on the selling price, as the price which we are having to pay for all raw material and labor demands it, and there is no telling where the demand, especially for labor, will stop.

In reply to your questions would answer as follows:

1st. We think an advance in the price of stoves absolutely necessary.

2d. Prices should be advanced from 5 to 10 per cent.

3d. Should be arranged to take effect not later than October 15th, earlier if possible.

4th. The increase in cost of stoves for the last twelve months is at least 10 per cent and in some cases more.

From Ohio.

To The American Artisan:

Replying to your circular letter of the 18th in regard to an advance in the price of stoves:

Answering your first question: An advance is certainly necessary. Second, the percentage should be not less than 5 per cent. That would really not cover the extra advance in materials, but it is presumed that the majority of the manuafcturers will not have to pay the price that now prevails on pig iron and coke, as well as on all materials, and fourth, if they would have to pay these advances, 5 per cent on stoves would not be sufficient.

From a Western Manufacturer.

To The American Artisan:

Replying to yours of Sept. 18th. While there are many reasons for an advance in stoves at the present time, still we are not convinced that it would be to the best interests of the business to make an advance at this time.

From New York State.

To The American Artisan:

We are in receipt of yours of the 16th inst. asking our views upon the matter of prices, with a view to making an editorial comment on the subject in your paper.

In reply we would say that there has been a substantial advance in cost of materials and supplies and labor. While in some departments of labor there has been no specific general advance, in others, advances have been made, not only to labor in the manufacturing department, but to clerks, salesmen, porters and about everybody in the distributing department. About everything needed and used, going into the expense account at the distributive end of the business, has cost more, so that the distributive cost has been considerably advanced.

Answering your questions, therefore, contained in yours of the 16th inst., we would say that we do think an advance in price of stoves necessary.

2d. That they should be advanced at least 5 per cent.

3d. That the advance should be arranged now.

4th. That the increase in cost of stoves within the last twelve months has been fully 5 per cent.

From Wisconsin.

To THE AMERICAN ARTISAN:

Replying to your letter of the 16th inst., we wish to confirm the fact that there has been a very substantial aggregate advance in cost of all materials and supplies used in the manufacture of stoves, and it is our judgment that an advance in price is necessary, at least an increase of 5 per cent, and should take effect at the earliest possible date. The increase in cost of stoves within the last twelve months has been about 10 per cent.

From New York State.

To THE AMERICAN ARTISAN:

Replying to your letter of the 15th regarding an increase price for stock, we think the time ripe for such an increase, and it should be 5 per cent in our opinion, as the raw material has advanced and also labor in the last year.

We further think that the 60 days' limit should be put on stove goods and a 2 per cent, 10-day issue.

We find several foundries doing this, or agreeing to do this, but they don't. They date bills so far ahead that it defeats the measure, and if they go to raise prices now they will first instruct their salesman to fill up customer or dealer and take orders for next year.

We do not see why they, meaning the stove manufacturers, should give away rightly what they are entitled to. Everything that goes into the manufacturing of stoves is cash or 30 days; then why give from 4 months to a year's time.

The profit in stoves is not so large as to warrant any such time, and it is only a case where the stove manufacturer is furnishing the capital for the dealer to discount his other bills and make money out of our money. We for one will not stand for anything of the kind from Jan. 1st next, and if the association will honestly come out and stand for this, we think it the proper time and say nothing about increase and then not to be false their agreement.

It would mean more than 5 per cent of a raise, as it would mean a great deal less in losses and a great deal more money in the pocket of the manufacturer.

They all know what we say is true, and if the big fellows will put this in vogue and not put stoves out on consignment it would tend to improve our business very much and then leave out a little of the selfishness of which we find there is a great deal.

It will be better for all concerned, and as there is only so many stoves sold a year, and if prices were only half what they are now there would not be any more sold at that.

We are in the stove manufacturing business for profit and satisfaction to our customers.

From New England.

To THE AMERICAN ARTISAN AND HARDWARE RECORD:

Replying to yours of 18th, while we believe that an advance of at least 5 per cent in selling prices on stoves and ranges is justifiable, as far as the increase in cost is concerned, it does not seem to us advisable that such an advance be made just when we are getting into the busy season. We would hardly favor an advance of above percentage to take effect say before the middle of November or first of December.

From New York State.

To THE AMERICAN ARTISAN:

Answering your letter of the 15th, would say that the present condition of the iron and raw material market not only warrants but demands an advance in prices of stoves and ranges at once. Prices should be fully 10 per cent higher, as the increased cost of manufacturing during the last year is from 10 to 15 per cent higher.

From New York State.

To THE AMERICAN ARTISAN:

Replying to your questions which you ask in your favor of the 18th would answer as follows: No. 1, Yes. No. 2, 7½ per cent. No. 3, Yes. No. 4, Between 10 and 12 per cent, considering the present values and decreased output by the workmen and increased wages and salaries.

We certainly are in favor of an advance at this time, and, as above stated, think the advance should not be less than 5 per cent and that the advance should take place at once, for the reason that the advance that was made about the first of the year has been entirely consumed by increased costs.

From Illinois.

To THE AMERICAN ARTISAN:

I am obliged to you for the information and am pleased to answer your questions as follows:

First. An advance of 5 and probably 10 per cent in the price of stoves is necessary to meet the higher cost of labor and materials.

Second. It seems to me that the advance should be at least 10 per cent.

Third. The advance should be arranged for now, to take effect on the first of October.

Fourth. I am confident that the advance in cost for labor and materials for goods to-day is fully 10 per cent over and above the cost of last year.

From Missouri.

To THE AMERICAN ARTISAN:

Answering your questions as they appear:

1. We do think an advance in the price of stoves justifiable, and almost absolutely necessary, considering present costs.

2. Five per cent is the percentage that prices should be advanced for the present.

3. If manufacturers are to get any benefit out of the advance, it should certainly be arranged before long.

4. Percentage of increase in cost of stoves within the last twelve months is from 8 to 12 per cent, with more advances in sight.

From a Large Manufacturer.

The following letter from a large stove manufacturer was not addressed to THE AMERICAN ARTISAN. It was addressed elsewhere under date of Sept. 14th:

"I have had our purchasing agent make a few comparisons of costs this year as compared with last year, and the percentage of advance, and I give them to you herewith:

Advance, Aug. 30, 1905, to Aug. 30, 1906.

	1905.	1906.	Adv.	Per cent.
Pig iron	$14.50	$18.00	$3.50	27 1-7
Steel	2.33	2.63	.30	13
Galvanized iron	2.78	3.08	.30	11
Nails	1.80	1.85	.50	3
Copper	17.00	18.80	1.80	10½
Tin	33.10	40.50	7.40	22 1-3
Lead	4.75	5.75	1.00	21
Zinc	5.62	5.92	.30	5½
Coal	1.45	1.60	.15	10 1-3
Coke	4.25	4.50	.25	1 1-5
Lumber	16.00	18.00	2.00	12½
Asbestos	2.80	5.00	2.20	80

These percentages of increase will fully eat up the 5 per cent advance made last December. The above figures are based on $18.00 iron as being the average cost for 1906. We have just contracted for 5,000 tons of pig iron for delivery this winter at from $19.50 for No. 3 foundry to $22.70 for soft, and the 5,000 tons will average a cost of $19.80, providing the furnaces accept the agent's contract, with every indication that pig iron will go still higher for next year's delivery, and the market price for pig iron next year bids fair to be 25 per cent higher in 1907 than it was in 1906.

From Pennsylvania.

To THE AMERICAN ARTISAN:

We are in receipt of yours of the 16th, and have noted that the Louisville manufacturers and the Southern stove manufacturers have advanced prices 5 per cent. We have learned to-day that the Pennsylvania Stove Association has advanced prices 5 per cent, and same has gone into effect.

In reference to the four questions asked in your letter of the 16th, we answer them as follows:

First—Yes.
Second—5 per cent.
Third—Now.
Fourth—5 per cent.

From Wisconsin.

To THE AMERICAN ARTISAN:

Replying to your letter of the 15th, will state that the continued advance in the price of nearly all material used in the manufacture of steel ranges makes an advance in price imperative to any manufacturer who has been keeping the selling price of his goods down to a legitimate ratio of his cost.

Our line being malleable, presents a little different proposition from a regular grey iron foundry. The advance cost to us could not be covered with less than a 5 per cent advance. We feel, however, that the manufacturer will be obliged for the next year or two to content himself with a smaller net profit until a turn comes which may reasonably be looked for. The advance in price we think should be made to take effect the first of January, 1907.

From Pennsylvania.

To THE AMERICAN ARTISAN:

Owing to the rapid rise in the price of practically all raw materials entering into the manufacture of stoves, also the condition of labor, this company feels that an advance on the price of its product is absolutely necessary.

There really should be an advance of not less than 15 or 20 per cent in order to show a fairly good profit.

After thoroughly reviewing the situation from every standpoint we feel the time is ripe right now to get better prices for our goods. According to our figures, the cost of stoves within the last six or eight months has advanced from 10 to 12 per cent.

Taking into consideration other businesses, we are certain that the stove manufacturer is working harder and getting less for his products than any other line of business.

From Ohio.

To THE AMERICAN ARTISAN:

Answering yours of recent date we beg to say as follows:

First—It may be found necessary to make an advance in the selling prices of stoves.

Second—We are not prepared to say just how much said advance should be.

Third—We do not believe that this advance should be arranged for now.

Fourth—Cannot give you at this time the percentage of increased cost in the last twelve months.

THE RADIANT HOME STOVES RANGES AND FURNACES.

The Radiant Home line of stoves, ranges and furnaces manufactured by the Germer Stove Company, of Erie, Pennsylvania, is one that has a wide reputation among dealers for general excellence. These goods are made upon the principles which insure thoroughness in operation, highest quality in material, and superiority in finish. Their Radiant Home Steel Range is a handsome piece of workmanship. It has a hammered polished body and full nickel fittings and is in every respect a range that will not fail to attract attention.

Their line of cast ranges is also well worthy of mention for their general excellence. They are made in various models, are highly ornamental in appearance, well nickeled and finely finished. In their construction every attention has been paid to those details which insure to the user the greatest satisfaction. They are built upon lines which will win for them the approval of the most exacting of dealers and buyers. They are made with and without reservoirs, cast high closet and shelf and are adapted to the use of hard or soft coal, coke, lignite or wood.

The Germer Company also manufactures a fine line of coal and wood cook stoves, which cannot fail to prove attractive to stove buyers. They are equal in every respect to the ranges manufactured by this company.

The Radiant Home Base Burner is a heater that is widely known for its many sterling qualities. It is of the highest class in material, workmanship and finish, and is an article that finds ready sale and gives general satisfaction.

The Radiant Home Air Blast is a heater that is fully up to date in every particular. It is made in various styles; steel body, cast body, extension body, mica illuminated, nickel fittings, etc.

The furnaces manufactured by this company take rank with the very best in every particular. They are made with original patent air blast firepot and insure complete combustion with the greatest economy. They are fitted with force air draft ring which insures perfect combustion in all parts of the firepot alike. They have the triangular duplex grate, each bar of which can be separately removed and replaced with ease, and there is no dirt nor dust when shaking the grate or removing ashes, as each cell in the firepot serves as a dust flue, and carries it all into the fire chambers. Dealers who do not carry this line of goods will find it to their advantage to inquire into their merits and will be aided in their efforts by a handsome catalogue that is issued by the manufacturers. When writing kindly mention THE AMERICAN ARTISAN.

DICKEY PLANISHED SHEET STEEL.

The "Dickey" Planished Sheet Steel, which comes from the great new plant at Indiana Harbor, Indiana, is attracting considerable much deserved attention among users of really good planished sheet steel. It runs to a good strong, high polish, and works soft, tough, and flexible, without the customary breaks that are occasioned in the manipulation of many grades of sheet goods. As a feature it has the merit of holding its color thoroughly well in high and long continued heat. In a word, the "Dickey" brand of planished sheet steel is becoming rapidly popular amongst sheet steel users, and the demand for it is increasing in volume rapidly as its superior qualities become known in the trade.

"Dickey" Planished Sheet Steel is made in gauges running from 18 to 28, and runs consistently even to its gauges. It is one of the current offerings that are manufactured by the Ward-Dickey Steel Company, of Indiana Harbor, Indiana. Inquiries for price list and other data will receive prompt attention if so addressed. Kindly mention THE AMERICAN ARTISAN.

News Siftings

Mr. M. H. G. Gunther, superintendent of The Canton Manufacturing Company of Canton, Ohio, recently spent several days in Chicago in the interest of his company in the matter of important pending contract work. Mr. Gunther advises us that the works at Canton are exceedingly busy in all departments.

Some good, clever and originally devised advertising is running right along weekly in THE AMERICAN ARTISAN in the full column of space used by the Faultless Manufacturing Co. of St. Charles, Ill. There's a whole lot in this particular column always; some good clever things wholly outside of range lore, but which apparently are chosen and thus used because of their fitness to associate with so good a production as the company's very excellent "Aerflame" malleable steel range—the range with the hot blast fire box and other "to the minute" features. "Keep your eye on the grand old rag" and the column ad of The Faultless Mfng. Co.

STOVE PRICES ADVANCED.

A telegram to THE AMERICAN ARTISAN from Baltimore under date of Sept. 28 is as follows: "Maryland and Virginia Stove Manufacturers' Association advanced prices 5 per cent, effective at once."

A TRAIN LOAD OF STOVES.

In its issue of Sept. 18th *The Fremont (O.) Weekly Messenger* devotes a large space to a photographic half-tone illustration of a recent eleven car shipment of Lincoln stoves and ranges by The Lincoln Stove & Range Co. of Fremont, Ohio. As shown in the illustration the shipment makes a goodly train with a locomotive attached apparently ready to move out with the goods. There were about a thousand stoves in the shipment and some effective advertising was done in connection therewith by large full car length signs on all cars announcing in each case that the car was "Loaded with Lincoln Stoves & Ranges from Fremont, O." In the breakup of the train at some destined railway distributing point, two cars went to Minneapolis, three to Omaha, one to Peoria, Ill., one to St. Joseph, Mo., one to Indianapolis, one to Terre Haute, Ind., and one to Toledo. It was a nice shipment and the very good illustration of the made up train is encouraging and enthusing.

THE HOUSE WITHOUT A SIGN.

A big Chicago manufacturing concern that has been doing business in the same building for many years has never had a sign of any kind on its plant to indicate to the searcher or the passerby who occupied the plant or what is doing inside, and yet this plant is a steady running, successful and prosperous one, that puts out a generous and very attractive lot of advertising in newspapers and by mail from its own office.

Inside is an exceptionally handsome office, with a lot of busy clerks, stenographers and assistants, and elsewhere in this and other stories of the building a corps of active workmen attend to grinding, stamping, rolling and growling machinery that produce a most excellent kind of stove polish and make the cans and boxes and other receptacles therefor and also prints all the labels therefor. It is a complete and very busy stove polish factory equipped to make not only the polish but everything used in connection with it in the most modern manner. It is a stanch brick building and is always kept nicely painted and clean looking exteriorly, and the goods made therein go all over America and to other points in the world, but it hasn't a sign. If it had a sign it would read Nickel Plate Stove Polish Co., and it might also read The Home of The "Black Kid."

QUALITY STEEL RANGES.

The Quality Steel Range Company of Belleville, Illinois, issue a catalogue, with explanatory attachment, of their Quality Steel Grade Ranges in an attractive and interesting manner. These ranges stand high in the estimation of all dealers and consumers who have had them in hand. They are beautiful in appearance, compact and durable in construction and are ready and satisfactory sellers. All parts of these ranges are finely fitted and finished and give unmistakable evidence of the highest accomplishment in the range building art. Those who are posted on the value and know the requirements of a first-class range will appreciate the merits of the Quality goods. Certain points of merit are embodied in all ranges and certain defects are common to all that are built to be sold at a price, but with the Quality goods, conscientious endeavor has been put forth by the manufacturers and has achieved for them the highest excellence in every line. Dealers would do well to send for this catalogue, which will be furnished upon application. Mention of THE AMERICAN ARTISAN is requested.

DEATH OF GEORGE W. ROBERTSON.

The stove trade will learn with regret of the recent death of Mr. George W. Robertson, of the stove house of Southard-Robertson Co., of New York City, who died at his home in Peekskill, N. Y., on Monday, Sept. 17th, from dropsy of the lungs. For two years previously he had been in feeble health owing to a paralytic stroke. Since the beginning of 1868 Mr. Robertson had been engaged in the stove-making business and continuously in the same concern as at the time of his death, and for many years he was a most familiar figure in stove and other matters in the New York stove region at Water street and Peck slip. He was in high standing in the stove trade and had many warm friends. He died at the age of 67 years.

Mr. John A. Witman, a pioneer stovemaker of Ohio, died at Columbus, Ohio, on Sept. 17th, following an operation at the Grant hospital. At the time of his death he had attained the age of seventy-nine years. He had operated as a stovemaker in Ironton, Ohio, and elsewhere, but for about twenty years past had been connected with the stove industry in Columbus, Ohio.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly. You will find these on pages 40 to 45 inclusive.

The Seymour Tool Co. of Seymour, Indiana, is a new corporation.

Clarke & Eaton, hardware dealers, were burned out recently with a loss of about $12,000. Insurance covers the loss.

H. C. Cuddebach's hardware store at Hudson, Wis., was burglarized recently and some cash and the cash register were carried away.

Cavanaugh & Merrifield, of Kent, Washington, have a new brick store building designed for a hardware store in process of completion.

What will be known as the Reid Company of Moline, Illinois, is now in process of incorporation. The company will manufacture sheet metal and hardware specialties.

At Salem, S. D., Wentzy & Stransky have sold out their hardware business. Mr. J. W. O'Meara will in future manage the business, which has been bought in by a corporation.

The People's Hardware & Implement Company has filed articles of incorporation at Livingston, Montana. The company is capitalized at $40,000. The incorporators are J. F. Nolan, E. A. Biller and Ebert F. Allen.

Mr. E. T. Burgess of Columbus, Ohio, having completed his customary summer outing at Indian River, Michigan, is again at his post at the head of the very prosperous Burgess Soldering Furnace Co. of Columbus, Ohio.

The Victor Manufacturing Co., makers of the Wonder washing machine, heretofore located at Hiawatha, Kansas, has removed to Leavenworth, Kansas, where a larger plant and improved manufacturing, shipping and other facilities are provided.

The Krause Hardware Co. of Lebanon, Pa., has attracted much local attention by an attractive window display in which a complete blacksmith shop with forge anvil, an apparently glowing forge fire and other adjuncts of a well-ordered smithy's domain.

A company recently incorporated will be known as the Sparks Hoe Co., of St. Mary's, West Virginia. Capitalization, $10,000. Incorporators: J. R. McMahon, J. R. McCollum, R. Boland, Jr., Clyde B. Johnson and Clark D. Johnson. The company will engage in the manufacture of garden tools.

The Stove & Range Co. of Pittsburg, of Pittsburg, Pa., are offering a good wide range of attractive inducements in their very large assortment of really up-to-date stove and range productions this season. The company not only has a lot of good things, but it also has a faculty of telling of them aptly in their advertising matter.

Through a letter coming direct from Nichols & Rankin Co. of Burlington, Iowa, we are advised that the reported selling out of their hardware stock by THE AMERICAN ARTISAN, while true, is somewhat misleading, as, although having sold out the hardware stock as stated, the furnace, roofing and sheet metal departments have been retained and increased, and these, together with the manufacture of hardware specialties, comprise the lines that will in future have the company's attention.

A new trust composed "of the whole of the hinge makers of Great Britain," as reported by the London Times, has recently been formed "to put an end to underselling." Trusts are increasing at present more rapidly in the United Kingdom than in the United States, despite the lack of a protective tariff in the former country.

The Star Enameling & Stamping Co. of Pittsburg, Pa., are finding a rapidly increasing market for the gray mottled and white speckled lines of their manufacture. Several new items have been added to their enameled ware assortment, among which is a line of large sizes of preserving kettles. Their catalogue is available.

"STAR" BRAND BARS.

Hard Sawed Brass and Copper Bars in special widths and thicknesses are carried in great quantity by U. T. Hungerford Brass & Copper Company, 497-505 Pearl Street, New York. These are the "Star Brand" goods, which line includes, in addition to the copper and brass, all metal bars, such as bronze, yellow metal, tobin bronze, oreide, german silver, etc. An immense stock of these goods is always on hand and ready for immediate shipment. Catalogue and particulars of full line will be mailed on request. When writing for same, kindly mention THE AMERICAN ARTISAN.

FAUCET WATER MOTOR.

A very handy and useful device for the sharpening of knives, tools, etc., or the burnishing and polishing of silverware and kitchen utensils is Divine's "Red Devil" Faucet Water Motor, manufactured by the Divine Water Motor Company, 296 Broadway, New York. It "grinds, polishes, buffs anything." This little article will also furnish power for all kinds of small machines. Special motors for washing machines are also manufactured by this company. They issue a neat blotter illustrating very plainly the operation of the "Red Devil" motor. Blotter and further particulars will be sent upon application. Mention of THE AMERICAN ARTISAN is requested.

TRIUMPH IN WASH BOILER MAKING.

Something very excellent in the way of a wash boiler is the Reed's Monarch Hand-made Wash Boiler, manufactured by the Reed Manufacturing Company, of Newark, New York. In quality, construction and finish these boilers are of very high standard and are well calculated to stand the hardest kind of use. They are made of tissue-lined charcoal plate, full weight copper bottoms and are wired with 5-10 hard market steel wire drop forged, and will withstand, as has been shown, a pressure of three hundred pounds without deflecting 1-16 of an inch. The cover and rim are made of one piece, seamless pressed with patent cold station-

ery handle, and fit like a glove. In this boiler will be found a combination of special features, which make of it a durable and most satisfactory article, and one that will be sure to find ready sale and give the best of satisfaction to both dealer and purchaser. For full particulars and circular send in your early request and at the same time kindly mention THE AMERICAN ARTISAN.

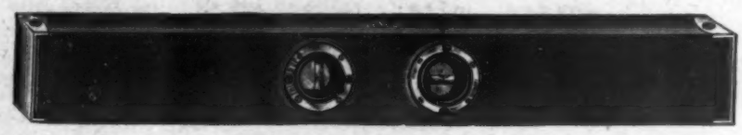
"J-M" ASBESTOS ROOFING.

An absolutely reliable material for roofing and siding buildings is an article that is much in demand at this time of year for covering old and defective roofs of all kinds, repairing sides of buildings and making all impervious to the weather. Such an article will be found in the "J-M" asbestos roofing material, manufactured by the H. W. Johns-Manville Company of 100 Williams street, New York. Possessed of fire resisting properties, reasonable in cost, absolutely unaffected by acids, chemical fumes, gases and salt air, this roofing will be found to meet every requirement and will be sure to come fully up to expectations under the most adverse climatic conditions. The great economy and convenience of prepared roofing as compared with the old style iron shingle or slate roof has resulted in a tremendous demand for prepared roofing of all kinds. The H. W. Johns-Manville Company state that they are prepared to meet the demand. They have an attractive and liberal agency proposition, full particulars of which they are ready to give at a moment's notice. Their line of goods should prove a money maker and it will pay agents and dealers to make inquiries. When writing, kindly mention THE AMERICAN ARTISAN.

THE DAVIS & COOK SPIRIT LEVELS.

Anything that shows for itself clearly without talk or argument certain superior merit in the way of convenience, accuracy, durability is a good selling proposition and anything that shows without figures or argument or explanation that it will save money or time which to many is the equivalent of money commonly sells itself without assistance to comprehending ones. These reasonings will apply nicely to the modernized spirit levels such as are used by carpenters, masons, bricklayers and others that are made by Davis & Cook of Watertown, N. Y. Their devices have brought the workman's level up to an improved modern standard of convenience and accuracy that is attracting the attention of level using workingmen generally. The firm in its catalogue offers a large variety of levels for all uses and in varieties of manufacture and mounting that make good strong considerations in their favor as selling inducements.

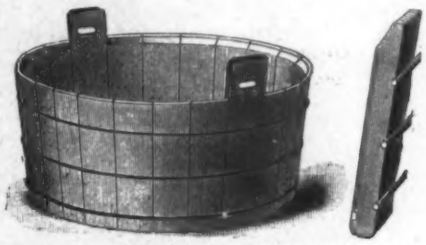
Davis & Cook, Watertown, N. Y. Needed information cheerfully furnished. Kindly mention THE AMERICAN ARTISAN.



Level in Hardwood with Nickel Trimmings.

ELECTRIC HOOP TUB.

This tub is manufactured by the Richmond Cedar Works of Richmond, Virginia. It has electric welded wire hoops and the staves are very thick and strong.



Electric Hoop Tub.

It is considered to be the finest and best tub for family use. The company will be glad to forward further particulars to any dealer mentioning THE AMERICAN ARTISAN.

SELLING IDEA WORTH MILLIONS.

In a premium offer that is made by the Republic Metalware Company, of Buffalo, Chicago, and New York, there is a selling idea that is bound to insure large sales of their goods. The plan as set forth in their circulars is very simple, but is such that it will be sure to find favor with every dealer handling their goods. With an order for their Niagara Enameled Ware or Aetna Enameled Ware amounting to $125 they send out one Hot Tamale Combination Coaster for use as a premium. With this they provide the dealer with fifty or more pads of numbered coupons, each pad containing one hundred coupons. These pads are for distribution among the boys; each boy receiving a separate number and registering his name against that number. The boys in turn distribute the coupons among their friends requesting them to use them in securing purchases for the Aetna or Niagara Enameled Ware. At the end of the sale period the coupon number showing the highest sale is entitled to the premium. Circulars and attractive advertising matter is also supplied by the company calling attention to the premium sale. The very fine article which is offered as a premium is sufficiently attractive to awaken in the boys a desire to possess it and they will be sure to bestir themselves in their efforts to win it. About this time of the year they are becoming interested in "coasters" and anything new in that line is sure to attract attention, and the Hot Tamale Combination Coaster is sure to catch them. It is easily converted from the four-wheeled vehicle into a bobsled by removing the wheels and attaching a set of runners. It has the automobile steering wheel which gives perfect control and a foot brake which is immediate and positive in action. This

premium is a winner and is certain to largely increase the demand for The Republic Metalware Company's goods.

Send for descriptive circulars and booklet and kindly mention THE AMERICAN ARTISAN, when writing.

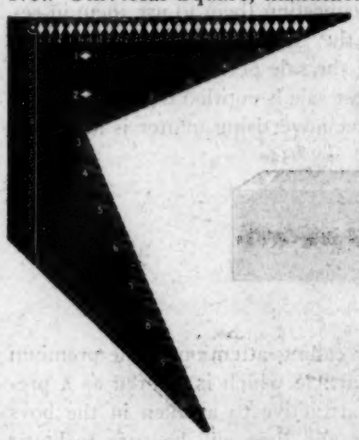
PLANET R. F. D. MAIL BOX.

Ever since the establishment of the rural free delivery of the United States mails, for which under the rules of the postoffice there must be provided a suitable box receptacle of certain prescribed dimensions therefor, there has been a flood of rural delivery mail boxes offered to the hardware trade, in whose stores it was naturally expected the marketing of the product would be done. We learn that the rural free delivery mail box manufactured by Smith Brothers Mfg. Company has found a very gratifying appreciation with the users of receptacles of this character. The mail box referred to is manufactured by them under letters patent. It is a good substantial box of twenty gauge galvanized steel, and is constructed in a manner that is entirely rain proof and weather proof and in a manner that accords with the specifications of the postal department. Among other features the box has a flag signal device, so convenient and so seemingly necessary to patrons.

Other articles manufactured by the house indicated are largely specialties which they control. We understand that all their lines are moving freely at the present time, and are giving gratifying satisfaction. Such other information as may be desired may be had by addressing the company as above indicated at Indianapolis, Ind. When writing kindly mention THE AMERICAN ARTISON.

NEW UNIVERSAL SQUARE.

A very unique and handy tool will be found in the New Universal Square, manufactured by the Duby & Shinn Manufacturing Company, Inc., of New York. This tool is a combination of the tri-square, miter square, level square, pitch-cut square and hip and valley square. It is also a straight edge, lumber gauge, plumb and level, table gauge, draws circles, lays out mortise and tenons, octagonal cuts, etc., and is at the same time a correct rule. In all the uses it requires no adjustment, is guaranteed in every particular and finds among mechanics ready and appreciative customers. Large sales of this article are readily made by leading jobbers of tools and hardware. As a consequence of growing business the Duby & Shinn Company have found it necessary to increase their facilities and have moved to Branchport Station, Long Branch, N. J.



Universal Square.

Dealers in mechanic's tools will find it greatly to their advantage to include in their list this very handy and salable article. Full particulars will be gladly furnished upon request. When writing don't forget to mention THE AMERICAN ARTISAN.

DEKKO WALL COLORS.

A fine line of wall colors will be found among the specialties manufactured by the Enterprise Paint Manufacturing Company, of Van Buren and Peoria streets, Chicago. These colors are ready for immediate use when mixed with cold water. They will flow well together, spread easily, cover well with one coat, and can be used pure for deep effects or intermix with white or tints to obtain lighter shades. They can also be intermixed, one with another, to obtain an endless variety of colors. When applied to a proper surface they will give a perfect finish, will not show "laps," can be recoated and will dry out without loss. These colors are packed in 25 and 50 pound boxes, 100-pound kegs and 350-pound barrels. Samples will be furnished on application. When writing kindly mention THE AMERICAN ARTISAN.

RECORDS WITH PETERS CARTRIDGES.

At Hot Springs, S. D., tournament, August 28th, second amateur average was won by Mr. S. A. Huntley, and third amateur average by Mr. B. M. Pitt, both using Peters factory loaded shells. In the 50-target cup race Messrs. Huntley and Ackerman tied on 48, both shooting Peters' shells, Mr. Ackerman winning in the shoot-off. Messrs. Huntley & Pitt won second and third amateur averages respectively for the two days.

At Columbus, Ohio, Sept. 3rd, Mr. D. D. Gross, representing the Peters Cartridge Co., and shooting Peters factory loaded Ideal shells, won high average; also was the only straight score in the 20-target merchandise race, shooting from 19 yards.

At Utica, N. Y., Aug. 25th, the Hunter medal presented to the O. C. S. A. Gun Club, was contested for, and was won by Master John Wagner, a youth of 13 years, who gives promise of being one of the shining lights of the shooting world within a short time. In this medal event Master John broke 25 straight, tying with one other contestant, and in the shoot-off broke 15 straight. He invariably uses Peters amunition, which he has discovered even in his early youth is the best in the country.

Mr. L. I. Wade, Texas representative of the Peters Cartridge Co., has been shooting a very consistent, if not remarkable, gait during the present summer. In a series of shoots beginning June 15th and ending Aug. 21st, he broke 2,194 targets out of 2,325, an average of 94.3 per cent. Mr. Wade uses either Peters Ideal or Premier shells with equally good results.

At the Great Western Handicap the squad of Peters' representatives, consisting of Messrs. Young, Wade, Day, Hardy, Callison and Kahler, shot a remarkably consistent and steady gait through the entire tournament, these six men averaging about 90 per cent. Mr. S. A. Huntley of Omaha, an amateur,

went through the three days with 93.8 per cent, using Peters factory loaded shells.

Peters factory loaded shells have recently made some excellent winnings in the New England states. At Springfield, Mass., Sept. 3rd, high average was won by Mr. J. S. Fanning with Peters' Ideal shells. On Sept. 6th at Bristol, Conn., Mr. Fanning again won high average, and Mr. Geo. W. Fernside second high average, both using Peters shells.

At Portland, Me., Sept. 3rd, the Elmhouse cup was won by Mr. C. S. Randall, who broke 24 out of 25 at 20 yards rise with Peters Ideal factory loads, a most excellent performance.

On Sept. 5th at Henniker, N. H., the state championship was won by Mr. Eugene E. Reid with Peters shells.

The sportsmen in New England seem to be keeping pace with those in other parts of the country, and are equally alive to the fact that the ammunition manufactured by the Peters Cartridge Co. gives perfect satisfaction.

RETAIL HARDWARE DOINGS.

NEW FIRMS AND INCORPORATIONS.

New York, New York—Gallop, Sherman & Lovell Hardware Company, hardware and plumbing; capital $10,500.

New York, New York—John Krammerer; to manufacture hardware, etc.; capital $15,000.

St. Louis, Missouri—Never-Break Range Company, to manufacture and deal in stoves, ranges, cooking apparatus and enameled specialties; capital stock fully paid $125,000.

San Antonio, Texas—Western Hardware Company, hardware; capital stock $100,000.

St. Louis, Mossouri—St. Louis Hardware & Manufacturing Company, hardware and manufacturing; capital stock $10,000.

Selby County, Tennessee—Barnes & Miller Hardware Company; capital $175,000.

Tacoma, Washington—The Acme Maleable Iron & Foundry Company has been incorporated for $25,000.

Bamberg, South Carolina—Bamberg Furniture & Hardware Company; capital $3,000.

Stuart, Virginia—T. L. Clark Hardware Company; capital $25,000.

Caldwell, Idaho—The Boyes Hardware Company has engaged in business here.

Sand Point, Idaho—George A. Chamberlain has opened a new hardware store.

BUSINESS CHANGES.

Lafayette, Indiana—Frank Menefee has sold his hardware store to Philip Smith.

Sibley, Iowa—Geo. W. Meader has purchased the hardware stock formerly owned by Muder & Snows from C. J. Bovee.

Calvert, Texas—N. Y. Wilson has closed a deal with H. L. Stricker & Company for their stock of hardware.

Leaf River, Illinois—John Offenheiser has sold his interest in the hardware business to his partner, Ed. Schuler.

Homer, Nebraska—Geo. Ford has severed his connections with the Homer Hardware Company.

Odessa, Washington—The Koth & Sung Hardware Company has sold out.

Caldwell, Idaho—The Boyes Hardware Company has started in business at Caldewll.

Leigh, Nebraska—William Wenk of Creston has purchased the T. E. Rochford hardware and furniture stock.

Richmond, Virginia—Kennedy Brothers & Kellam will succeed the Sitterding-Carneal-Davis Company; office 8 Broad street.

Lakota, North Dakota—Fred Ferris & Son have purchased the stock of hardware, etc., of the Pinkerton-Kellogg Company.

Ogden, Iowa—Mr. Henry Verseck has disposed of his hardware stock to Mr. Osgood of Estherville.

Greenfield, Ohio—Harry West has sold his hardware store to R. R. Jones.

Bertrand, Nebraska—W. C. Sand has purchased the hardware store of Beyrer, Dressler & Tozer.

Garden Plain, Kansas—Rau & Kramer have been succeeded in the hardware business by Rau & Steinke.

Stamford, Nebraska—R. A. Danskin has sold his hardware store to John Richmond.

Girard, Kansas—D. J. Spence has sold his hardware store to E. C. Heist.

Oxford, Nebraska—Fisher & Schepker have succeeded in the hardware store of Howell & Schepker.

Palmer, Nebraska—J. E. Plank has been succeeded in the hardware business by Plank & Branaman.

Geyser, Montana—P. J. O'Hara has sold his business to the Bell Hardware Company.

Elliott, Iowa—Reynolds Brothers & Carson have purchased the hardware store of Maloney & Son.

Alden, Kansas—Bradley & Ward have sold their hardware and implement business to Ross & Zimmerman.

Idana, Kansas—C. R. Park has purchased the business of the Roach Hardware Company.

Logansport, Indiana—Elihu S. Rice has sold his hardware store to John Gard, Henry Melton and Charles Neff.

Osceola, Iowa—The firm of Becker Brothers, known as the Osceola Hardware Company, have dissolved, C. S. Becker assuming full control.

Middletown, Ohio—The Jacoby Hardware Company announce that on January 1st they will change hands, Julius Singer and Albert Wirtz being the new owners.

La Grundy, Missouri—Aaron A. McPike, who recently purchased a half interest in McNatt's hardware store, purchased the other half and is now sole proprietor.

Somonauk, Illinois—Walter B. Kleinsmid sold out his interest in the Weir & Kleinsmid hardware business to his partner, Thos. A. Weir.

Clay Center, Kansas—Carl Parks has purchased the hardware stock of the Roach Hardware Company.

Morris, Illinois—J. B. Moss and George Trotter have bought the hardware store of D. McKillop's.

MISCELLANEOUS.

Howell, Michigan—The Bennett Hardware Company will move to the Opera House Block and occupy the store recently vacated by A. W. Balch, the grocer.

St. Clair, Michigan—E. S. Hart & Company are occupying their new quarters in the Inches-Henson block with their hardware stock.

Albion, Illinois—Smith & Mayes have moved into their new building with one of the largest stocks of hardware and and implements to be seen in Illinois.

Sherman, Texas—J. H. McKinney has accepted a position with the Hardwicke-Etter Hardware Company as traveling salesman.

Havelock, Iowa—Fire in the H. P. Armitage hardware store caused loss estimated at $20,000, partly covered by insurance.

Atlanta, Georgia—The Southern Saw Works announce the removal of their offices from East Point to this city.

Montour, Iowa—The O. P. Dyke hardware store was lately burglarized and $100 worth of stock taken.

Mackinaw, Illinois—Burglars broke into the hardware store of Albert Metzler. Value of goods taken about $100.

Boliver, Missouri—The Drake Hardware & Implement Company announce that Mr. John Moore is again in charge of their plumbing and tin department.

Albion, Wisconsin—Mr. Crosley's hardware store was broken into and about $20 worth of cutlery stolen.

Tuscola, Illinois—Burglars broke into the hardware store of Edward Cox and looted the show cases of about $200 worth of stock.

Gilman, Illinois—A proposition has been made for the location of a tool factory by Ohio capitalists.

Fremont, Nebraska—Burglars broke into the hardware store of Pilsbury, Veazie & Company; the loss is estimated at about $150.

Heating and Ventilating

SOMETHING HANDY.

A handy little blotter artistically printed and illustrated is circulated by the March-Brownback Stove Company of Pottsville, Pennsylvania, who are makers of a fine line of stoves, heaters and rangers. On this blotter is shown in miniature one of their specialties, the Low Down Crown Warm Air Furnace. This means of keeping before the dealer their very excellent line of goods is not only unique, but will serve its purposes well, being a trade reminder and at the same time a very neat little article for the desk of the dealer in stoves and ranges. Catalogues will be sent upon request, and don't forget that you saw this in THE AMERICAN ARTISAN.

THE "AUER" REGISTER.

A prime feature in the "Auer" side wall, hot air register is its usefulness, for in certain contingencies that the ordinary wall register has no place in whatever. Commonly, side wall registers are flat in formation and stand pretty nearly flush with the wall and thus the ascendency current of hot-air must be coaxed into a chosen apartment in the event of higher up registers being open, hence it often occurs that they fail to produce the desired warm air current that is expected from them. In the Auer the desired action of current is cleverly provided for by a slight lower extension of the fixture into the room, a hanging hinged door or "valve" covering an opening of the entire radiator area and a slatted lower covering for the ascending flue. By pushing backward the swinging door or valve the entire heat of the flue is properly admitted to the apartment desired and moreover the device forms a warm footrest for cold toes when occasion requires. It is a clever arrangement and should be at once popular. The catalogue with illustration explains it fully. Ask The Auer Register Co. of Cleveland, Ohio, and kindly mention THE AMERICAN ARTISAN.

RICHARDSON & BOYNTON CO.

Richardson & Boynton Co. are in the market for 1906 with their usual varied and excellent offerings to people who are in the market for the real, good, consistent and reliable things in the line of warm air furnaces, hot water and steam heating boilers, tank heaters, laundry heaters and such other like apparatus as connects therewith in a strong, popular and well-ordered line. Years of experience and success have ably fitted them to know and to do in their chosen field and have brought them success and merited recognition. Their latest catalogue is available at their offices in New York, Boston or Chicago. In writing them, kindly mention THE AMERICAN ARTISAN.

The Standard Register Co. of Cleveland, O., is pushing things among register buyers in the trade with a very excellently designed and exceptionally well made and finished assortment of hot air registers that are interchangeable with all first-class makes. The company desires to have it known that it is not a member of any Register Association and is therefore in position to quote low prices for prompt delivery. The company has its own foundry, and its capacity is sufficient for all requirements. Catalogue on application.

THE GREEN FURNACE PIPE.

The evolution of wall furnace pipe has come up from very simple conditions. Years ago conduits for this purpose were merely single tubes of tinware in proper form, let into walls to convey the heating elements throughout the several apartments of the structure. The fact that this class of construction was not altogether safe and that many conflagrations resulted thereby, was not long in coming to the notice of the insurance placers and adjusters, and as safer conditions were required, modern safety furnace pipes began a development. What was formerly an affair of construction for the ordinary tinner became a matter for the consideration of practical thinking and inventing people, and the result is a variety of devices for the purpose that are not only acceptable to the insurance people, but are known to be practically secure.

There are a variety of devices in this class which claim superior merit, and no doubt they all have merit, but, of course, in greater or lesser degree. The furnace pipe construction offered by the Green Foundry & Furnace Works, of Des Moines, Iowa, appears to have certain very acceptable merits peculiar to itself which attract investigators.

The company, we are informed, is finding a most pleasing recognition for this class of goods, and the demands upon this department are not only urgent at the present time and very extensive in volume, but not sufficiently great in extent to interfere with the capacity of their extensive plant, as we are assured that although they are very busy they are at all times prepared to take care of orders promptly.

Catalogues, discounts, and such other information as may be desired, may be had by addressing the company, as above indicated at Des Moines, Iowa, and when writing, kindly mention THE AMERICAN ARTISAN.

A lot of practical information relating to sidewall and other hot air registers is available to dealers who want to know in a catalogue of these goods by a furnace and register concern that makes them and likes to tell the trade what has been learned by careful study and experience. Write R. J. Schwab Sons & Co., Milwaukee, Wis.

They certainly mean it when they advertise that "There are no better furnaces than those made by the Graff Furnace Co. of New York City." An experience of twenty-five years stands behind this very straightforward and duly modest assertion, and it is quite open for verification among the vast number of furnace dealers who have handled their goods with profit, success and satisfaction.

The westward growth of the trade of the company has induced them to establish a warehouse and sales agency at Decatur, Ill., under the management of Mr. C. M. Barnett.

Decatur, by the way, because of its diversified and far-reaching railway connections and facilities, is a most excellent choice for western distribution.

Tinshop

PATTERN FOR A FIRE-PLACE BLOWER.

BY LOUIS OEHRING.

In Fig. 1 is shown an elevation of a blower to cover an opening for a fire-place, being arched over with a half circle and the blower showing a segment of a circle in plan. This problem can only be correctly developed by triangulation. After drawing the elevation and plan divide one-half of plan into equal spaces and also half of elevation from B to C into the same number of equal spaces. The halves of the plan and elevation being symmetrical it will not be necessary to divide up the balance. Now project the points 1, 3, 5, 7, 9 and 11 of elevation to line FH of plan and shown by the numerals 1', 3', 5', 7', 9', 11'; then project the points 2, 4, 6, 8, 10, 12, of plan to the line A E of elevation and shown there by the numerals 2', 4', 6', 8', 10', 12'. Draw lines connecting 2 and 3', 3' and 4, etc., of plan, doing the same with the points in the elevation, as shown. We now have a projection drawing of the blower divided into triangles. All lines are shown fore-shortened excepting A, BC of elevation and the curve F G of plan, all the other lines shown must now be found in their true length; this is done by constructing right angle triangles as shown in the diagram of triangles; these triangles are constructed as follows: Draw line a 1" equal in length to the line 1, 2' of elevation, make the distance a 2", equal to 1; 2 of plan then 1" 2" will be the true length of line 1, 2' of elevation, construct triangles for each line shown in succession as shown making each triangle equal in height to the perpendicular distance from the line AE of the elevation to the point desired on the half circle and the bases of the triangles equal the length of the proper lines in the plan representing the same triangle of the elevation. In practice it is not necessary to separate the triangles as here shown in the diagram of triangles, this is done so as to avoid confusion. After the diagram of triangles is completed, draw line AB of Fig. 2, upon it set off the length from 1" to 2" of diagram of triangles; from 2 of Fig. 2 strike arc at 3 with radius equal to 2" to 3" of diagram. Now set compasses from 1 to 3 of elevation Fig. 1, and with 1, Fig. 2, as center, strike arc crossing arc at 3, with 3 as center and radius equal to 3", 4" of diagram, strike arc at 4, Fig. 2, set compasses from 2 to 4 of plan, Fig. 1, and with 2, Fig. 2, as center, strike arc crossing arc at 4, proceed with each space taking the dimension from diagram, from elevation and from plan each in its proper order. The line 11 to 12 of Fig. 2 is taken direct from the elevation, being shown by 11 and 12 in its true length. This will complete one-half of pattern, the part to the right of line A 13, Fig. 2, is a reproduction of the part just completed and making the complete pattern, to which must be added edges for wiring or stiffening where necessary.

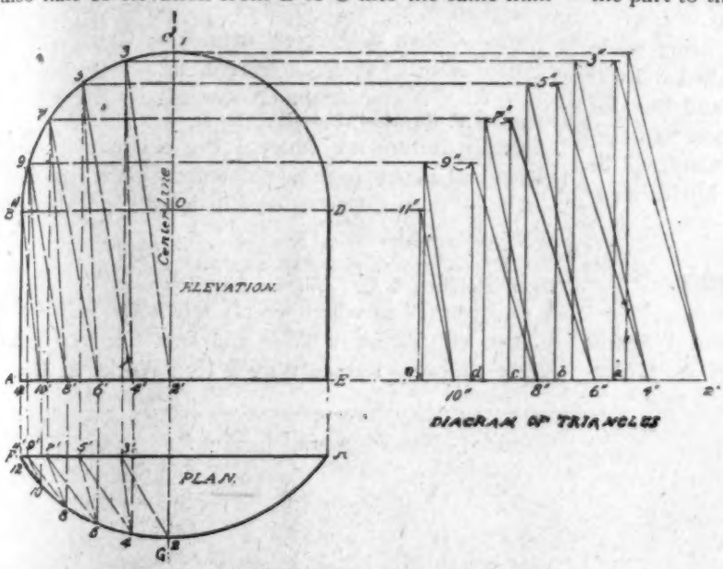


Fig. 1. Elevation, Plan and Diagram of Triangles for Fire-Place Blower.

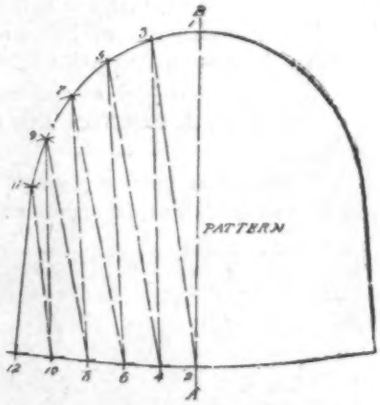


Fig. 2. Pattern for Fire-Place Blower.

TANNER ROOFING PLATES.

Tanner & Company, of Indianapolis, Indiana, who take as their trade mark "Quick Shippers," is a concern that carries a large and varied assortment of roofing plates in different gauges and sizes. From this stock they are prepared to fill an order of almost any kind in both steel and charcoal iron. Their warerooms are always piled high with the different articles which go to make up a complete stock of this kind. In their list may be found one hundred different gauges and sizes in cold rolled steel No. 14 to 28 inclusive. Wood's Refined Iron, No. 14 to 27 inclusive. Apollo galvanized steel No. 16 to 30. Griffith's galvanized charcoal iron No. 24 to 26. Wellsville polished steel 28x60 and 24x 101. Wood's planished iron A and B 128x60. Genuine Russian Iron No. 10, 11, 28x56. Dealers wishing particulars on a full and satisfactory line of these goods would find it to their advantage to send for catalogue and prices. When writing please mention THE AMERICAN ARTISAN.

"CAMARET" ROOFING TIN.

The "Camaret" High Grade Roofing Tin, manufactured by Merchant & Evans Company, successors to Merchant & Company, Inc., of Philadelphia, New

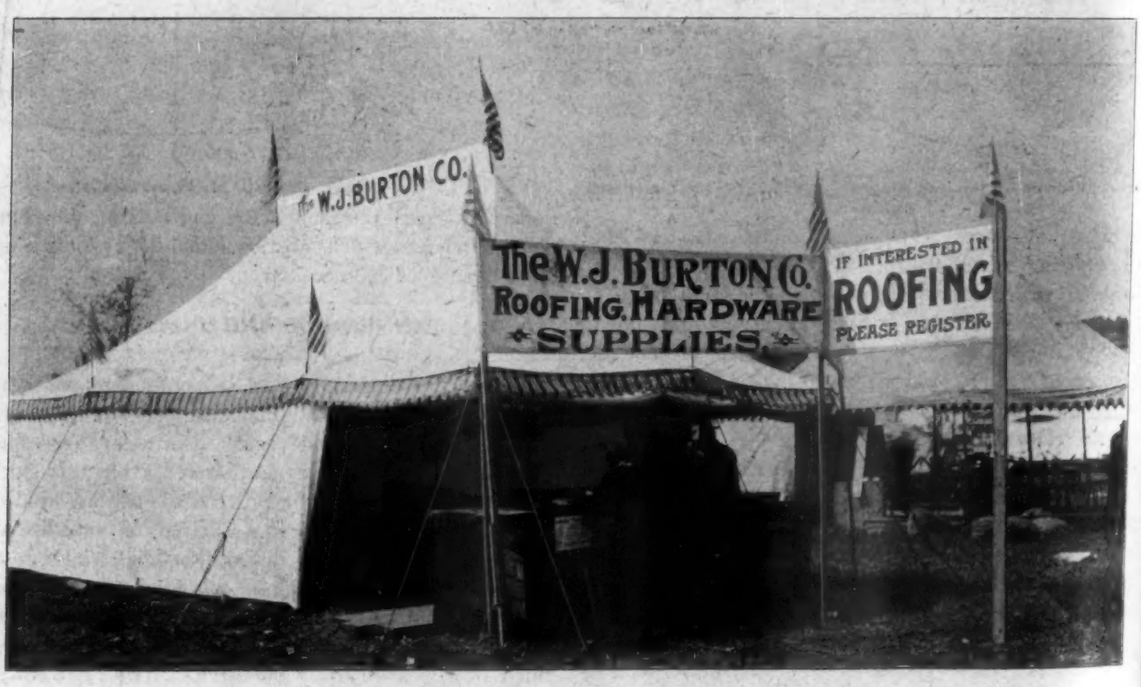
York, Brooklyn, Chicago, Baltimore, Kansas City, and Denver, is an article that has been tested throughout the country during a period of twenty-five to thirty years. It has always been found thoroughly reliable and has won for itself the favor of large consumers of roofing material. It is especially adapted for use on factories, mills and such buildings and fills all the requirements in a satisfactory manner. A long list of public buildings, warehouses, stores and residences upon which the "Camaret" roofing plates have been used is published in a pamphlet issued by this company. These buildings being located in nearly all the Atlantic states from Pennsylvania to Alabama. This will give some idea of their wide popularity.

These plates are of the highest grade, being made of the very best material and are finely finished and will be sure to prove a very attractive line and one for which the dealer can guarantee the utmost satisfaction. Descriptive circular and full particulars will be furnished upon request. When writing kindly mention THE AMERICAN ARTISAN.

THE W. J. BURTON CO. EXHIBIT.

The illustration upon this page is from a photograph of an exhibit of the manufactures of W. J. Burton Co. of Detroit, Michigan, at the Michigan state fair, held at Detroit during the period extending from August 30 to September 8, 1906. As will be seen, the tent arrangement is a really nice one, which for the hot weather prevailing afforded comfort and convenience. A very attractive exhibit was provided, which awakened much interest among visitors to the fair. Among the goods displayed were: "Eastlake" metal shingles, fire proof metal windows, galvanized iron cornice, skylights, finials, and their best roofings, namely, Paroid and Burlap gravel surfaced roofing.

The exhibit was a most successful one, in the way of awakening interest in the company's goods as well as in inducing sales and making valuable acquaintances.



W. J. Burton Co.'s Exhibit at Michigan State Fair, Detroit.

NOTES AND QUERIES.

UNDERFEED FURNACES.

From Hubbell Bros., Kearney, Neb.

Please inform us who makes underfeed hot air furnaces.

Ans.—C. E. Sutton & Co., Toledo, O., and the Patric Furnace Co., Springfield, O.

WIRE CLOTH.

From Bevier Bros., Clyde, O.

Kindly give us the addresses of concerns that make wire cloth.

Ans.—Gilbert & Bennett Mfg. Co., Chicago, Ill.; Clinton Wire Cloth Co., Chicago, Ill.

LIGHTING GLASSWARE.

From H. F. Strehlow, Casselton, N. D.

Kindly inform me where I can obtain glassware, globes and shades from manufacturers in car load lots.

Ans.—Phoenix Glass Co., Pittsburg, Pa.; Macbeth Glass Co., Pittsburg, Pa.

HORSE STALL.

From Morrison & Co., Gilmore City, Iowa.

Can you tell us where we can buy horse stalls?

Ans.—F. P. Smith Wire and Iron Co., 100 Lake street, Chicago; Barbee Wire & Iron Works, 44 Dearborn street, Chicago; M. H. Hickey Wire & Iron Works, 54 Dearborn street, Chicago.

FLAT SPRING STEEL WIRE.

From J. M. Porter, Clinton, Ill.

Where can I procure flat spring steel wire like enclosed sample?

Ans.—The George Nash Co., 24 S. Clinton street, Chicago.

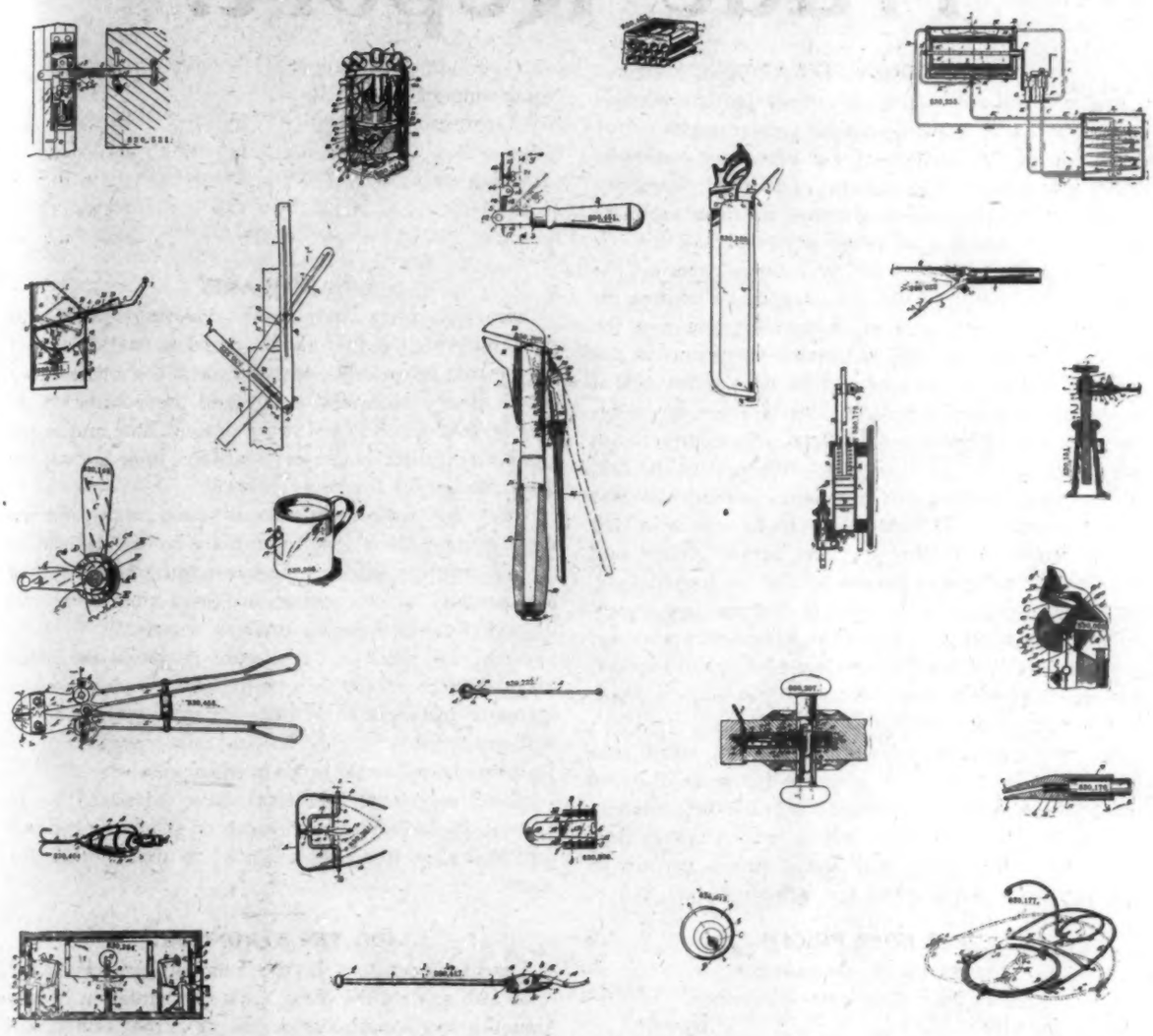
STEEL JAIL CELLS.

From Johnson Bros., New Castle, Neb.

Please advise us where we can get steel jail cells.

Ans.—F. P. Smith Wire & Iron Works, 100 Lake street, Chicago; Stewart Iron Works Co., Cincinnati, Ohio.

NEW PATENTS.



829,693—Oyster-opener. Edward M. Colford and George H. Thomas, Washington, D. C.; said Thomas assignor to said Colford. Filed July 18, 1905. Serial No. 270,192.

830,013—Lock. John H. Shaw, New Haven, Conn., assignor to Sargent & Company, New Haven, Conn., a corporation of Connecticut. Filed July 21, 1905.

830,066—Gravity-lock for Windows. William A. Heartt, New York, N. Y., assignor to Frank Voightmann, Chicago, Ill., and Silas H. Pomeroy, New York, N. Y., composing the firm of Voightmann and Company, Chicago, Ill. Filed May 19, 1905. Serial No. 261,172.

830,146—Locking Device. Belton T. Hamilton, Finchley, and Lewis Stroud, London, England. Filed Oct. 2, 1905. Serial No. 281,015.

830,151—Ratchet Jack-screw. Charles H. Jack, Poughkeepsie, N. Y. Filed March 1, 1906. Serial No. 303,589.

830,176—Tool-holder. Benjamin F. Rodes, Echo, Oreg. Filed Oct. 6, 1905. Renewed June 26, 1906. Serial No. 323,531.

830,177—Animal-trap. Joseph W. Rogers, Bodines, Pa., assignor of one-half to Solon L. Andrews, Bodines, Pa. Filed May 1, 1905. Renewed Aug. 1, 1906. Serial No. 328,764.

830,322—Carpenter's Framing-square. Leonard A. Hodge, San Jose, Cal., assignor of one-half to Willis P. Holmes, San Jose, Cal. Filed July 13, 1905. Serial No. 269,482.

830,404—Fishing Device. Edwin Barnes and Barney D. Barnes, Corsicana, Tex. Filed Feb. 24, 1906. Serial No. 302,747.

830,500—Permutation-padlock. Rowan Gibson, Gaffney, S. C., assignor of one-fifth to Jefferson O. Sparkes, one-fifth to Robert L. Byrd, one-fifth to Robt. F. Gibson, and one-fifth to Edward R. Cash, Gaffney, S. C. Filed Oct. 31, 1905. Serial No. 285,286.

830,178—Damper-regulator. Alvin W. Rowe and Arthur W. Bittenbender, Chicago, Ill. Filed August 10, 1905. Serial No. 273,691.

830,207—Permutation-lock. John Clement, Baraboo, Wis. Filed July 1, 1905. Serial No. 267,944.

830,231—Mail-box. Halvor G. Homme, Granite Falls, Minn. Filed Oct. 19, 1905. Serial No. 283,484.

830,232—Adjustable Bracket. Albert Jordan, London, England. Filed Jan. 23, 1905. Serial No. 242,451.

830,244—Heater. John W. Mellott, Sheridan, Pa. Filed Oct. 9, 1905. Serial No. 281,948.

830,485—Convertible Extension Step-ladder. Leonard M. Norton, Northampton, Mass. Filed Sept. 28, 1905. Serial No. 280,410.

830,255—Cream-whipping Machine. Charles H. Siegmund, Milwaukee, Wis. Filed June 4, 1906. Serial No. 320,082.

830,300—Wrench. John Christian, Hydraulic, and Chas. E. Wetzel, Naturita, Colo. Filed Jan. 30, 1906. Serial No. 298,584.

830,308. Combined Measure and Weighing Device. Paul A. Dietz, Joplin, Mo. Filed Jan. 5, 1906. Serial No. 294,762.

830,335—Saw. Levi C. Kurtz, Beaver Falls, Pa. Filed Nov. 22, 1904. Serial No. 233,849.

830,381—Trap. Egbert M. Streeter, Tacoma, Wash. Filed April 17, 1906. Serial No. 312,217.

830,417—Cutting-tool. John A. Dale, Philadelphia, Pa. Filed Aug. 23, 1905. Serial No. 275,472.

830,453—Bolt-clipper. Henry K. Porter, Chelsea, Mass. Filed Aug. 31, 1905. Serial No. 276,513.

830,451—Scraping Tool or Implement. James H. Peterson, New York, N. Y. Filed Sept. 6, 1905. Serial No. 277,139.

830,423—Water-cooling Device. George Fernwell, New York, N. Y., assignor to The Metal Stamping Company, New York, N. Y., a corporation of New York. Filed March 14, 1906. Serial No. 305,944.

830,531—Lock. Edward H. Roy, Nashville, Tenn. Filed Feb. 18, 1905. Serial No. 246,285.

Trade Report.

THE PIG IRON SITUATION.

Pig iron still rules very high in all the markets and in the scarcity of available pig for present needs or for the needs of the balance of the year is a matter of rather grave concern to melters. The great prosperity of the country has led to demand for iron products to an extent that has absorbed practically all the pig on hand and under contract by melters covering the remainder of the year and the urgency of present requirements presents a most unfavorable situation for them. There is less pig in furnace yards and in the yards of melters at the present time than at any period in many years and, naturally, foundry men are nervous as to the prospect before them. No contracts are being awarded for 1906 and the pushing into the first and second quarters of 1907 has crowded the first quarter's capacity of furnace output to an extent that has stiffened the market for that period greatly and to an extent stimulates the market for the second quarter. Pig for present delivery is commanding a premium of $1 to $1.50. Founders who melt for export products are looking for supplies to English markets for relief, figuring that the tariff drawbacks allowed will permit profits by this action.

No new purchases of foreign foundry metal have been made by domestic consumers for home use, but unless the English and German iron markets advance materially within the next few days such transactions are likely to be made, as domestic prices are rapidly soaring above those asked for foreign metal.

PIG IRON PRICES.

PITTSBURGH QUOTATIONS.

Prices all f. o. b. cars Pittsburgh.

No. 2 foundry	19.00@ ....
Gray forge	17.30@17.85
Bessemer iron	19.10@19.60
Ferro-manganese	80.00@90.00
Muck bars	30.00@31.00
Iron bars	1.60@ ....
Wire nails	1.85@ 1.90
Wire rods	33.00@34.00
Cut nails	1.75@ 1.80
Barbed wire, painted	2.00@ 2.15
Barbed wire, galvanized	2.30@ 2.45
Cotton ties	.85@ .95

NEW YORK QUOTATIONS.

Northern—	
No. 1 X foundry	20.00@21.50
No. 2 X foundry	19.50@20.50
No. 2 plain	19.00@20.00
Gray forge	17.00@18.00
Basic	10.50@20.00
Virginia—	
No. 1 foundry	21.10@21.60
No. 2 foundry	20.10@21.10
Basic	19.75@20.00
Southern—	
No. 1 foundry	19.50@21.00
No. 2 foundry	19.00@20.50
No. 3 foundry	19.50@20.50
No. 4 foundry	18.00@18.50
No. 1 soft	19.50@21.00
No. 2 soft	19.00@20.50
Gray forge	17.00@17.50
Mottled	16.50@17.00
Basic	19.50@20.00

HARDWARE.

Increased price quotations covering practically everything included in hardware lines, has stimulated buying to a remarkable degree. Retailers' orders have shown steady increases of late and the volume of orders booked for delivery at the present time and in the immediate future is greater than has been known for the same period for many years.

The condition of present hardware prices and the threatening outlook for prices of the future are leading strong retailers to cover future requirements well in advance and in turn jobbers are protecting themselves by contracts with their sources of supply.

As a rule, stocks of hardware goods in the hands of manufacturers are unusually light, so light indeed in many instances that much delay is occasioned in delivery to jobbers. The fall and winter seasons promise phenomenal trade in all hardware lines.

Sheet copper and bottoms have advanced to 1c. Quotations have been withdrawn on spades and shovels and a higher trend is indicated in many other features.

PIG TIN STRONGER.

Leading operators in the London pig tin market, who also control the New York spot situation by continued heavy speculative purchases in that center, have caused net advances of 5s in spot and 12s 6d in nearby deliveries, the spot price closing at £186 5s and futures at £185 10s. The Singapore pig tin market also registered a net advance of 7s 6d, closing with spot offerings on the basis of £185 17s 6d c. i. f. London.

Leading New York importers and dealers have held their prices on spot metal very firmly on the basis of 40.40c and 40.45c. A sale of 10 tons of sopt tin was effected on the local Metal Exchange at 40.40c and later in the day several lots of spot metal were marketed at 40.40c and 40.45c, while a few purchases were also made for deliveries throughout the remainder of this week at similar figures. The October delivery was quoted at 40.40c and the November delivery at 40.35c. The N. Y. Metal Exchange quotation committee fixed its settling prices at 40.37½c for September and October, and 40.27½c for November and its official range on spot tin at 40.35@40.45c. The arrival at this port of 10 tons from Rotterdam on the steamship Ryndam increased the receipts so far this month to 3,517 tons.

BARS AND SHEETS.

Business in iron bars continues active and the minimum price is now $1.00 per 100 lbs., Pittsburgh. A

number of mills are idle and those still operating are experiencing little difficulty in obtaining the $1.60 rate for their product. Premiums of a dollar a ton are not unfrequently offered to secure prompt shipment. One sheet mill has announced an advance of $1 per ton, otherwise price conditions are practically unchanged. New tonnage continues in heavy proportions. Slowness of deliveries is noticeable, eight weeks are regarded on black and twelve weeks on galvanized materials.

Steel sheets are also in active demand and premiums of $1 per ton are being secured by the mills on the heavier gauges. The appalling scarcity of domestic tin plates for prompt delivery has also resulted in the importation of Welsh plates for home consumption and further importations of foreign tin plates are expected daily.

STEEL BARS.

Steel, soft, base, half extras, in carloads ..... $1.64½@1.69½

Note.—For quantities less than 2,000 lbs., but not under 1,000 lbs., $2.00 per ton additional is charged, and less than 1,000 lbs., $6.00 per ton additional.

SHEETS.

The following prices are for 500-bundle lots and over, f. o. b. mill:

	Black.	Galvanized.	
Gauge.	Net.	Net.	List.
No. 30	2.75	4.05	21
No. 29	2.65	3.80	19
No. 28	2.50	3.55	17
No. 27	2.40	3.55	16
Nos. 25 to 26	2.35	3.15	15
Nos. 22 to 24	2.30	2.95	14

PLATES.

The following prices are based on carload lots, with 5c extra for less than carload lots. Terms, net cash in 30 days:

Tank plates, 6¼ to 14 in. wide ..... $	1.74½
14½ to 100 in. wide	1.82½
Flange and boiler test	1.84½
Marine, ordinary fire box	2.94½
Still bottoms	2.04½
Locomotive, fire box	2.24½@3.05

Note.—Plates more than 100 inches in width, 5c extra per 100 lbs.; plates 3-16 inch in thickness, $2.00 extra; gauges Nos. 7 and 8, $3.00 extra.

COPPER STRONG.

While several moderate-sized tonnages of electrolytic copper were contracted for by domestic consumers for deliveries during January, February, March and April of next year on the basis of 19⅝c and 19¾c per pound, few additional purchases of this grade were made by home melters for deliveries throughout the remainder of this year because of the fact that very little metal was available for such shipments. On the small lots of electrolytic which were secured for November and December deliveries 19¾c and even 19⅞c were easily secured, while on transactions for deliveries within the next 30 days 20c was the prevailing figure. European consumers continued to place orders here for shipments in November, December and January on the basis of 19⅞c and 20c per pound and on shipments in October these foreign interests willingly paid 20¼c. Lake grades also sold for deliveries in December, January and February, on the basis of 20c, while premiums of ⅛c were secured on deliveries throughout the remainder of this year. Casting grades were firmly held at 19½c for prompt and nearby deliveries, and at 19¼c for far-distant shipments.

Matthew Addy & Company will say in their weekly report: Pig iron business is still on the high gear, so to speak. During the week there has been a noticeable call for spot iron in small lots. The demand for soft foundry iron and high Silicon metal can only be described by that overworked word, "strenuous." As a matter of fact a great many furnaces are in trouble, and consumers who have bought what they expected they would need are not getting their full quotas on contracts. Then it is an undeniable fact that nine consumers out of ten are using more iron than they anticipated, so that their previous purchases are not enough to cover their increased requirements. This larger consumption, coupled with slow shipments, is rapidly bringing about an acute condition, which will undoubtedly grow worse as the year progresses. The railroads are doing better than some weeks ago, but they are not making any phenomenal time in handling freight.

For next year the price of No. 2 foundry ranges from $15 to $16, but for spot shipment $17 seems to be the usual figure. These prices are f. o. b. Birmingham.

The bulk of the business actually done has been for delivery over the first half of next year. There is a constant and steady buying from day to day that amounts to a heavy tonnage. In addition a good part of the low-grade iron in the South has been taken up. The demand some time since was altogether for the high foundry grades, so that there was quite a surplus of low-grade iron, but pipe-making and other interests using this iron have now absorbed it, so that practically very little is left. From the seller's standpoint the situation could not be more favorable.

Rogers, Brown & Company in their weekly report will say: There is increasing interest in business for the first quarter and first half of next year, and buyers are in the market for considerable tonnage during this period. Sales have been made during the week covering these deliveries and prices received have been without concession. Available stocks in furnace yards and on hand with consumers are smaller than ever before, and the outlook for distinct shortage during the balance of the year is most pronounced. There will, of course, be iron available from time to time for spot sale and shipment, but it will only be that made by furnaces over and above what they have expected to make during the same period. The total output figured as available for 1906 has been disposed of. There is still considerable irregularity in prices, particularly on what spot material is available. Prices for next year's delivery are more uniform.

Reports of scarcity of labor and car shortage come from all sections and figure very largely in the quantity of raw material furnished furnaces, as well as the proper transportation of manufactured output. As the inclement weather of this time of the year approaches, these conditions will be emphasized.

Basic iron has been an interesting feature and there has been activity in its sale. The demand has been strong and a large tonnage for delivery during the balance of this year was called for, with only a part of it found available. Several large sales of this class of iron have been made in the Birmingham district.

Coke is in good demand and prices strong. There is a reported decrease in production during the week in the Connellsville field and other districts have suffered from lack of cars to move the output. More serious, however, than the car shortage is the present scarcity of labor in all districts. Where in past years the car situation was the one most largely to blame for unsatisfactory supply of fuel, now the lack of labor completely overshadows the usual source of trouble.

Current Hardware and Metal Prices.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly.

METALS.

FIRST QUALITY BRIGHT PLATES.

		Per Box
IC	14x20	$7 25
IX	14x20	8 25
IXX	14x20	9 48
IXXX	14x20	10 68
IXXXX	14x20	11 88
IC	20x28	14 50
IX	20x28	16 50
IXX	20x28	18 95
IXXX	20x28	21 35
IXXXX	20x28	23 75

COKE PLATES.

Cokes, 180 lbs	IC	20x28	$9 00
Cokes, 200 lbs	IC	20x28	9 35
Cokes, 216 lbs	IC	20x28	9 75
Cokes 270 lbs	IX	20x28	11 70

PIG IRON.

Lake Sup. Charcoal	$19 00@$19 25
North'n Fdy., No. 1	18 80@ 19 05
North'n Fdy., No. 2	18 80@ 18 55
North'n Fdy., No. 3	17 80@ 18 05
Northern Scotch Fdy.	18 80@ 19 05
Ohio Strong Softeners, No. 1	19 80@ 20 05
Ohio Strong Softeners, No. 2	19 30@ 19 55
Southern Fdy., No. 1	18 15@ 18 40
Southern Fdy., No. 2	17 65@ 17 90
Southern Fdy., No. 3	17 15@ 17 40
Southern Fdy., No. 4	16 65@ 16 90
Southern No. 1 Soft	18 15@ 18 40
Southern No. 2 Soft	17 65@ 17 90
Southern Gray Forge	16 15@ 16 40
Southern Mottled	15 90@ 16 15
Southern Silveries, 4 to 6 per cent Silicon	17 90@ 18 15
Jackson Co. Silveries, 8 to 10% Silicon	22 30@ 23 30
Ala. and Geo. Car Wheel	23 90@ 24 40
Malleable Bessemer	18 30@ 18 50
Basic Iron	18 85

BLACK STEEL SHEETS.

Nos. 11-12 per 100 lbs	$3 0
Nos. 13-14 per 100 lbs	2 60
Nos. 15-16 per 100 lbs.	2 10
Nos. 17-21 per 100 lbs.	2 15
Nos. 22-24 per 100 lbs.	2 20
Nos. 25-26 per 100 lbs.	2 25
No. 27 per 100 lbs.	2 30
No. 28 per 100 lbs.	2 40

GALVANIZED.

Nos. 10-11 per 100 lbs.	$2 35
Nos. 12-14 per 100 lbs.	2 45
Nos. 15-16 per 100 lbs.	2 55
Nos. 17-21 per 100 lbs.	2 70
Nos. 22-24 per 100 lbs.	2 85
Nos. 25-26 per 100 lbs.	3 05
No. 27 per 100 lbs.	3 25
No. 28 per 100 lbs.	3 45

POLISHED SHEET STEEL.

No. 24 per 100 lbs.	$4 60
No. 26 per 100 lbs.	4 70
No. 27 per 100 lbs.	4 80
No. 28 per 100 lbs.	4 90

SMOOTH STEEL.

Wood's Smooth, No. 20	$2 90
" " No. 22-24	2 95
" " No. 25-26	3 00
" " No. 27	3 05
" " No. 28	3 15

PATENT PLANISHED SHEET STEEL.

Patent Planished Sheet Steel. "A" $10 20, "B"	$9 20
Dickey Planished Sheet Steel	8½c

GALVANIZED IRON.
Regular Sizes.

No 16, per 100 lbs.	$3 20
Nos. 18 & 20, per 100 lbs	3 35
Nos. 23 & 24, per 100 lbs.	3 70
No. 26, per 100 lbs	3 00
No. 27, per 100 lbs	3 50
No. 28, per 100 lbs	4 70
No. 30, per 100 lbs	5 90
Nos. 22 & 24 x 36 in., per 100 lbs.	3 10
No. 26 x 36 in., per 100 lbs.	3 90
No. 27 x 36 in., per 100 lbs.	4 10
No. 28 x 36 in., per 100 lbs.	4 30

SOLDER.

XXX Guaranteed ½ & ½, per lb.	29 c
Commercial ½ & ½, per lb.	28½c
No. 1 Plumbers	27 c

SHEET ZINC.

600 lb. Casks case, per cwt,	0 90
300 lb. Casks per cwt.	7 95
Sheets per cwt.	7 70

COPPER.

Copper base,	24c

TIN PIGS AND BARS.

Banca, pigs, per lb	35@35½c
Straits, pigs, per lb	35c
Straits in bars, per lb	37c

LEAD.

American Pig	$4 60@$4 62½
Bar	6½c
National (White) brands (in less than 100 lb. lots), per lb	7½c
Sheet.	
Full coils per 100 lbs.	$7 00
Cut coils per 100 lbs.	7 25

HARDWARE.

ADZES.

Carpenters'.	
Triumph	40&10%
Plumbs	50&5%
Coopers'.	
Barton's	20%
White's	15%
Railroad.	
Triumph	40&5%
Plumbs	50%
Ship.	
Triumph	33⅓&5%
Plumbs	40%
White's	12½%

AMMUNITION.

Caps, Percussion—per 1,000.	
F. L. Waterproof, 1-10s	40c
G. D	35c
Musket	60c
Cartridges.	
Winchester Rim Fire Ctgs.	50&3%
Winchester Cent Fire, Pistol and Rifle	25&3%
Winchester Cent Fire, Military and Sporting Ctgs	15&8%
Winchester Blank Ctgs. 22 cal.	$1 25
Winchester Blank Ctgs. 32 cal., C. F	4 60
Winchester BB Caps, Rnd. ball	1 50
Winchester BB Caps, Conical ball	1 95
Winchester Cent. Fire, Military and Sporting Ctgs	15&8%
Primers.	
Berdan Primers	$1 00
Winchester Primers	20%
Shells.	
New Rival Empty Paper Shells, 10 and 12 gauge	25%
New Rival Empty Paper Shells, 16 gauge	20%
Repeater Empty	20%
Leader Smokeless	25%
Winchester Repeater Loaded Shells	40&5%
Winchester Leader	40-10&10%
New Rival Loaded Shells	33⅓ & 11%
Gun Wads—per 1,000.	
Winchester Gun Wads	15%

Powder.	Each
DuPont's Sporting, kegs	$4 50
" " ½ kegs	2 50
" " ¼ kegs	1 40
Dupont's Sm'k'less. 50-lb. drum	22 45
" " 25-lb. kegs.	11 35
" " 12½-lb. kegs	5 80
" " 6¼-lb. kegs.	2 97
" " 1-lb. cans	51

Shot.	
Drop shot, sizes smaller than B, 25-lb. bags, per bag	1 90
Drop shot, B and larger sizes, 25-lb. bags, per bag	2 15
Buck Shot, 25-lb. bags, per bag	2 15
Chilled Shot, 25-lb. bags, "	2 15

ANCHORS.

Expansion Screw Anchors	10%

ANVILS.

Trenton, 70 to 80 lbs	9½c per lb
Trenton, 81 to 150 lbs	9½c per lb

ASBESTOS.

Board and Paper	33⅓%

AUGERS.

Boring Machine	70%
Irwin's	40&10%
Carpenters' Nut	70%
Hollow.	
Bonney's—list $30.00	75&5%
Stearn's, No. 3 "	36 00
Post Hole.	
Digwell, 8-inch per doz.	12 50
Iwan's Post Hole and Well	40&5%
Vaughan's, 4 to 9-in., per doz.	6 25
Rafting.	
Snell's	50&5%
Ship.	
Ford's, with or without screw	40-5%
Snell's, " " "	40-5%

AWLS.

Brad.	
No. 3 Handled per doz.	$0 40
No. 1050 Handled "	80
Shouldered, assorted, 1 to 4, per gro.	1 20
Patent asst'd, 1 to 4 "	85
Harness.	
Common "	95
Patent "	90
Peg.	
Shouldered per gro,	$1 20
Patent "	60
Scratch.	
No. 1, handled "	4 80
No. 15, socket handled. per doz.	1 25
No. 7 Stanley "	1 80
Sewing.	
Common per gro.	90
Patent "	90

AXES.

Boy's Handled.	
Lippincott, 3 lb per doz.	$5 00
Falls City "	5 00
Broad.	
Plumbs, West, Pat	40-10&5%
" Can. Pat	50&10%
" Firemen's (handled). per doz	$16 00
Plumbs, Miners (handled) "	6 50
Single Bitted (handled).	
Gladiator 3 to 4 lbs., pr dz.	$10 00
Flint Edge " " "	8 25
Standard " " "	8 25
Elec. Chopper, Forest Clipper	9 50
Perfect Premier " "	9 00
Crown Crescent " " "	9 25
Single Bitted (without handles).	
Gladiator 3 to 4 lbs. per doz.	$7 25
Flint Edge " "	5 75
Standard " "	5 75
Electric Chopper " "	7 00
Perfect " "	6 50
Crown " "	5 00
Double Bitted (without handles).	
Gladiator 3 to 4 lbs. per doz.	$9 75
Flint Edge " "	8 50
Perfect " "	9 75

The above prices on axes of 3 to 4 lbs. are the base prices.
3½ to 4½ lbs. advance 25c.
4 to 5 lbs. advance 50c.
4½ to 5½ lbs. advance 75c.

BAGS, PAPER NAIL.

Pounds	10	16	20	25
Per 1,000	$2.50	3.75	4.50	5.00

BALANCES, SPRING.

Frary's	50%
Pelouze	20%

BARS, CROW.

Pinch or Wedge Point cwt.	$3 25

BASKETS.

Clothes.			
Small Willow per doz.	$5 75		
Medium " "	6 50		
Large " "	7 25		
Galvanized Iron.	½ bu.	1 bu.	1½ bu
Per doz.	$4 00	5 50	7 00

BEATERS.

Carpet.	Per doz
No. 10 Coppered Spring Wire	$0 90
No. 12 Spring Wire	1 10
No. 10 Preston	95

Egg.	Per doz
No. 50 Imp. Dover	$0 70
No. 103 " " tinned	85
No. 150 " " hotel	1 40
No. 10 Heavy hotel tinned	2 10
No. 13 " " "	3 30
No. 15 " " "	3 60
No. 18 " " "	4 50

BELLOWS.

Blacksmiths'	65%
Hand.	
8 inch per doz.	$7 50
10 inch "	9 50
Moulders'.	
12 inch "	11 00

BELLS.

Call.	
3 in. Nickeled Rotary Bell, bronzed base per doz.	$5 00
Cow.	
High Grade	60&10%
Kentucky	70&10%

Door.	Per doz.
New Departure Automatic	$6 00
Rotary.	
3 in. Old Copper Bell	4 00
3 in. Old Copper Bell, fancy	6 00
3 in. Nickeled Steel Bell	4 50
3½ in. Nickeled Steel Bell	5 00
Hand.	
Hand Bells, polished	50&10&5%
White Metal	50%
Nickel Plated	40%
Swiss	60&5%
Silver Chime	33⅓%
Miscellaneous.	
Church and School, steel alloy	50&10%

Farm, lbs	40	50	75	100
Each	$1.25	1.60	2.35	2.85

BEVELS, TEE.

Stanley's, rosewood handle, new list	40%
Stanley's iron handle	40%

BINDING, OILCLOTH.

Zinc	80&10&5%
Brass	75&5%
Brass Plated	75&10%

BITS.

Auger.	
Extra Double Spur	70&10%
Ford's Car and Machine	40&10%
Triumph	50&5%
Ford's Ship	40&10%
Irwin	50&5%
Russell Jenning's	25&10%
Clark's Expansive	60&5%
Steer's " Small list, $22.00	30%
" " Large " $36.00	30%
Irwin Car	45%
Ford's Ship Auger pattern Car	40&10%
Center	40&10%
Countersink.	
No. 18 Wheeler's per doz.	$1 25
No. 20 " "	1 75
American Snail head. "	75
" Rose " "	90
" Flat "	75
Mayhew's Flat "	1 25
" Snail "	1 25
Dowel.	
New Jennings	40&10%
Gimlet.	
Standard Double Cut	60%
German Pattern per doz.	80 60
German "	65
Gouge "	80
Spoon "	80
Countersink "	1 00
Reamer.	
Jenning's Square "	2 50
Standard Square "	75
German Octagon "	75
Screw Driver.	
No. 7 Common "	50
No. 1 Triumph "	1 25
No. 2 " "	1 50
No. 340 Shepardson's "	1 25
No. 1 Smith's "	1 25

BLACKING, STOVE. (See Polish)

BLADES, SAW.

Butchers'.
Standard ⅞ & 1⅛ in. 40%
Clock Spring 40%
Star 15%
Coil ..... each $1 50
Hack.
Disston's ..... 25&5%
Flexible ..... 33⅓&5%
Star ..... 30&5%
Wood.
Jackson's ..... per doz. $2 25
Disston's—No. 6, 16, 26 & 045 .. 4 25
Triumph 3 50
Forest Clipper 3 00

BLOCKS.

Snatch.
Wooden ..... 60&10%
Steel 50%
Tackle.
Iron Strapped ..... 70&10%
Coin Steel ..... 60&10%

BOARDS.

Stove 40%
Wash.
Globe, single ..... per doz. $2 25
" double ..... " 2 75
Magnolia ..... " 2 65
Crystal Glass ..... " 3 40
Brass King ..... " 3 40
Nickel Plate ..... " 3 40
Enamel King ..... " 3 40

BOBS, PLUMB.

Carpenters'.
No. 2, iron ..... per doz. $0 65
No. 00, " ..... " 1 30
No. 0, " ..... " 1 80
No. 3, lead ..... " 2 90
No. 4, " ..... " 3 40
No. 113, brass plated. " 1 10
No. N30, nickel plat'd " 1 30
No. N31, " " " 1 85

BOLTS.

Carriage, Machine, Etc.
Carriage ⅜x6 and sizes smaller and shorter ..... 70&10%
Carriage, sizes larger and longer than ⅜x6 ..... 60%
Machine, ⅜x4 and sizes smaller and shorter ..... 70&10%
Machine, sizes larger and longer than ⅜x4 ..... 60&5%
Elevator ..... 50-10&5%
Plow ..... 60&10%
Stove ..... 80&10%
Tire ..... 75&5%
Wagon Box Strap 70%
Mortise Door.
Gem, iron 60%
" bronze plated 20%
Barrel.
Cast 60%
Wrought ..... 75&10%
" Bronzed 50%
Flush.
Wrought ..... 50&10%
Spring.
Wrought ..... 70&10%
" Heavy 70%
Square.
Cast ..... 50&10%
Wrought 75%

BORERS.

Angular.
Miller's Falls ..... per doz. $13 00
Bung. Doz.
Enterprise Mfg. Co.'s No. 1 .... $14 00
" " " No. 2 .... 18 50

BOXES.

Mail, No. 1 2 10
Per doz $3.25 4.50 17.50
Miter.
New Langdon ..... 15&5%
Stanley's 30%
Seavey's ..... each $1 50

BRACES.

Barber's ..... 50&10&10@50&10&10&15%
Fray's Genuine Spofford's 60%
" Nos. 66 to 146 ..... 50%
" No. 0108 ..... $3 50
" No. 0110 ..... 3 75
" No. 08 ..... 2 75
" No. 010 ..... 2 85

BRACKETS.

Hay-Rack.
Wenzelmann's No. 1 per doz. $9 00
" No. 2 " 9 60
Shelf.
Cast Iron, Bronzed 50, 10, 5%
Griffin Wrought Steel ..... 75&10%
" Folding ..... 70&10%

BROILERS.

Wire ..... 70&10%
Crown, Self Basting, No. 80. doz. $2 50

BUCKETS

Pump Rubber
Wychoff ..... per gr. $4 75
Cooper ..... " 4 75
Champion ..... " 7 50
Victor ..... " 9 25
Star ..... " 5 00
IXL ..... " 6 75
Well.
Galv'd Qts 10 12 14
Per doz $2.90 $3.25 $3.40
Wooden, top ear, plain, per doz. 3 75
" " swivel " 4 85

BUCKS, SAW.

Folding ..... per doz. $2 10

BURRS, RIVETING.

Copper Burrs only ..... 35-10&5%
Tinners' Iron Burrs only 70%

BUTTS.

Cast Iron ..... 70&5%
Wrought Brass 15%
Wrought Steel Bright.
Stanley ..... 75&5%
" Ba l Tip ..... 75&10%
" " Bronzed 70%
Wrought Steel, Japanned.
Nos. 731 and 733 ..... 70-10-10&10%

CALIPERS.

Double 70%
Inside and Outside ..... 70&10%
Wing 70%

CALKS.

Logger's Boot.
(Lufkin R. Co.'s), per M. $3 75
Toe.
Shoenberger ..... per ℔ 5 c
Bessemer ..... " 4½c
American ..... " 7 c
Swedes ..... " 8½c

CANS.

Cheese Factory.
Ontario Pattern.
Gallons 20 30 40
Each $3.85 $4.50 $5.65
Milk.
Holstein.
Nos 300 301 302
Gals 5 8 10
Per doz $20.00 $21.00 $23.00
Chicago Pattern.
Nos 105 108 110
Per doz $16.50 $18.50 $20.50
Iowa Pattern.
Nos 408 410
Per doz $20.50 $21.50
New Elgin Pattern.
Nos 705 708 710
Per doz. ... 20.50 $22.50 $23.50
Burn Pattern.
Nos 700 701
Gals 8 10
Price $1.85 $2.10

CAN OPENERS.

See Openers.

CAPS, GUN.

See Ammunition.

CARPET STRETCHERS.

See Stretchers.

CARRIERS.

Hay.
Diamond, Regulat ..... each $3 50
Diamond, Sling ..... " 6 50
Myers' Imperial ..... " 3 50
" Clover Leaf ..... " 3 65

CARTRIDGES.

See Ammunition.

CASTERS.

Standard—Ball Bearing ..... 50&10%
Bed ..... 60&5%
Common Plate.
Brass Wheel ..... 60&10%
Iron and porcelain wheels, new list ..... 60&5%
Philadelphia Plate, new list 70%
Martin's 60%
Payson's ..... 75&10%

CATCHERS, GRASS.

Carroll s No. C ..... per doz. $4.25
Wildermuth's
Nos 1 2 3
Per doz $5.60 $5.75 $6.25
Nos 4 5 6
Per doz $6.75 $9.50 $10.00

CHAIN AND CHAINS.

Breast Chains.
Doubleslack ..... doz. pairs $5 75
With Covert snaps. " 5 00
With slide ..... " 3 25
Without slide ..... " 2 85
Bright Ox Chains.
5/16 in. $7.25; ⅜ in. $5.45 per 100 lbs.
Table Coil Chain.
Inch ..... 5/16 ⅜ 7/16 ½
Per 100 lbs.. $6.80 $7.00 $6.00 $5.20
Inch ..... 9/16 ⅝ ¾ ⅞
Per 100 lbs.. $5.00 $4.90 $4.75 $4.65
Inch ..... ⅞ 1 1¼
Per 100 lbs.. $4.55 $4.55 $4.65
Cable Log Chain.
Advance 25c per 100 lb. on Cable Coil
Cow Tie Chains.
American 3 toggle ..... 50&5%
" toggle and snap ... 50&5%
" open & closed ring, 50&5%
Halter Chains.
American, new list ..... 33⅓&5%
German ..... 60&10%
Niagara, new list ..... 40&5
Brown's, " ..... 40&5%
Picture Chains.
Light Brass, 3 ft ..... per doz. 50c
Heavy Brass, 3 ft ..... " 75c
Pump Chain.
Galvanized, per 100 lbs $5.00
Safety Chain.
Brass ..... 60&10%
Special Steel Loading Chain.
Inch ..... ¼ 5/16 ⅜
Per. 100 lbs... $16.00 $13.50 $12.50
Stretcher Chains.
5/16 in. $8.50; ⅜ in. $7.75 per 100 lbs.
Tie-Out Chains.
Brown's ..... 70&10%
Trace Chains.
Western Standard.
6½—6-2 ..... per pair 30c
6½—8-2 ..... " 31c
6½—8-3 ..... " 33c
6½—10-2 ..... " 38c
7 —8-2 ..... " 38c
7 —10-2 ..... " 42c
7 —10-1 ..... " 48c
7 —10-0 ..... " 60c
Add 2c per pair for Hooks.
Add 2c " for Twist Link.
Wagon Stay Chains.
Inch ..... ¼ 5/16 ⅜
Per 100 lbs... $6.50 $6.00 $5.50

CHALK, CARPENTERS'.

Blue ..... per gross 75c
Red ..... " 65c
White ..... " 55c
Common White Sch'l
Crayon 8c

CHARCOAL

In bags ..... per bag 85c

CHECKS, DOOR.

Blount 33⅓%
Sargent's 33⅓%

CHIMNEY TOPS.

Iwan's Volcano 50%

CHISELS.

Box.
Inches 10 12 14
Round, per doz. $2.10 $2.25 $2.75
Flat " 2.85 3.60 4.20
Cold.
Good quality, ⅜ in. and larger ..... per ℔ 12c
Smaller size per doz.
Socket, Framing and Firmer.
Barton's 20%
Peck, Stow & Wilcox Co. 75%
For beveled back, add per doz. .60c
Tanged, Firmer.
With handles ..... 30&5%
Choppers, See Cutters, Meat.

CHUCKS, DRILL.

Goodell's, for Goodell's Screw Drivers ..... per doz. $6 2
Yankee, for Yankee Screw Drivers 5 0

CHURNS.

Anti-Bent Wood, Gal. 5 7 10
Each $3.90 $4.60 $4.85
Belle, Barrel 70%
Common Dash, Gal. 4 5 6
Per doz $7.75 $8.50 $10.50
Hero 70%
Union, Gal 5 7 10
Each $3.65 $3.90 $4.75

CLAMPS.

Adjustable.
Martin's 30%
Carpenters'
Steel Bar 25%
Hose.
Sherman's, brass, ¾ in., per doz. .33c
Double, brass, ¾ in., " 65c
Saw Filers.
Disston's list, $30.00 ..... 30%
Stearn's, No. 0, $3.50; No. 1, $11.50; No. 3, $5.00 doz.
Wentworth's. No. 1 $6.00, No. 3 $7.50

CLAWS, TACK.

Cast, wood hdle ..... per doz. 45@60c
Forged steel, wood hdle " $0.80
Solid Steel ..... " 1.60
Giant ..... " .60

CLEANERS.

Drain.
Iwan's Adjustable 55%
Iwan's Stationary ..... 40&5%
Pot.
Wire ..... per doz. $0.55
Side-walk.
Steel ..... per doz. $3.25
XLCR ..... 65&5%

CLEAVERS.

Family.
Griffin, In 6 7 8
Per doz $5.50 $5.75 $6.25
Royal ..... per doz. 2 25
Butchers.
Beattys, Kitchen 40%

CLEVISES.

Malleable ..... 4½c ℔

CLIPPERS.

Bolt ..... $1.90@$4.75

CLIPS.

Axle ..... 65&5%
Damper.
Standard ..... per doz. 65c
Troy ..... " 38c
Hame ..... " 17c

CLOTH.

Emery.
Triumph ..... 50&10%
B. & A 50%
Hardware Wire—full rolls (100 ft.)
2 to 8 mesh black, per 100 sq. ft. $1 95
9 to 12 " " " " 2 25
2 to 3 inclusive—in full roll 3 00
4 and 5 ..... " 3 25
6 ..... " 3 50
7 and 8 ..... " 4 00
Screen Wire.
12 mesh, painted, per 100 sq. ft. $1 10
14 " " " " 1 50

COCKS AND FAUCETS.

Compression Plain Bibbs ... 60-10-2½%
Lever Bibb Cocks ..... 60&10%
Compression Hose Bibbs ..... 60&5%
Telegraph Faucets (new list) ... 50-5%
Racking Cocks (new list) ..... 60&10%
Compression Lock C'ks(n'w list) .. 70%
Andrew's Brass Faucets 70%
Angle Plug Faucets, per doz ... $0.85
Milk Can Faucets, per doz. .. $2.60-4.20
Petroleum Faucets ..... 75&10%

COLLARS, STOVE PIPE.

Inches 5 6 7
Plain Tin .... per gro. $1.60 $2.00 $3.00
Japanned Tin " 3.00 3.00 4.25
Lacquered Brass " 2.75 3.25 4.00

COMBS, CURRY.

Nos 000 11 15 39 89 108
Per doz. $0.32 .55 1.85 .85 1.10 .75
Nos 299 390 390 532 620 1400
Per doz. $1.00 .80 1.30 1.15 .70 1.35

COMPASSES.

Carpenters' 70%
Pencil—Faber's ..... per doz. $1.00

COPPER—See Metals.

COPPERS.

Soldering.
1 ℔ ..... per ℔ 32c
1½ ℔ ..... 29c 2 ℔ .... " 28c
3 ℔ and larger ..... " 26c

CORD.

Picture.
White Wire (new list) 25%
Sash.
Baltic Braided Flax ..... per ℔ 20c
Silver Lake, white 7-32 in. " 29c
" " " 8-32 in. " 23c
Keystone ..... 8-32 in. " 26c

CORKSCREWS.

Humason & Beckley 33⅓%
Walker's 33⅓%
Williamson's Regular 50%
Williamson's Forged Worm 50%

COTTERS, SPRING.

All sizes—new list ..... 90&30%

COUPLINGS, HOSE.

Brass ..... per doz. $ .90
Brass Plated ..... " .85

COVERS, WAGON—See Tents.

CRADLES, GRAIN.

Morgan's Grapevine ... per doz. $22.75

CRAYONS—See Chalk.

CROW BARS.

Pinch or Wedge Point, per 100 lbs. $3.25

CUTTERS.

Glass.
Red Devil ..... 45¢
Smith & Hemenway Co. ..... 50¢
Woodward ..... 40¢
Meat.
Enterprise Nos. 5, 10, 12, 22, 32 and 42 ..... 25¢
No. 202, list, $1.50 ea. ..... 40&7½¢
Universal... Nos. 1 2 3
Per doz. $10.50 $12.50 $17.00
Pipe.
Stanwoods... No. 1 2 3
Each $0.85 $1.50 $4.00
Slaw and Crout.
3-knife Crout ..... per doz. $9 75
1-knife Slaw ..... " 1 65
2-knife " ..... " 2 25
Washer ..... " 7 75

DAMPERS, STOVE PIPE.

Standard ..... 50&10¢
American ..... 45&10¢

DIES, STOCKS AND

Discount ..... 40&5¢
King's, Little Giant ..... 33⅓¢

DIGGERS.

Post Hole.
Acme ..... per doz. $8 75
Atlas ..... " 8 50
Eagle ..... " 5 75
Eureka ..... " 7 00
Hercules ..... " 9 75
Iwan's Split Handle.. " 7 00
Iwan's Perfection ..... " 7 75
Iwan's Hercules pattern " 9 00
Ryan's ..... " 17 00
See also Augers—Post Hole.

DOOR CHECKS—See Door.

DOORS, SCREEN.

⅞ in. 4-panel painted, per doz. $7 93
1⅛ in. " " " 9 50
1⅛ in. 3-panel natural pine, fancy ..... per doz. 12 40

DOOR HANGERS—See Hangers.

DRILLS.

Bit Stock ..... 60¢ & 65&5¢
Blacksmith's Twist ..... 60¢
Breast.
Common ..... each, $2 25
Millers Falls ..... " 2 10
Hand
Goodell's Automatic.
Nos. 01 03 3 20
Per doz. .$7.75 $12.50 $14.25 $11 00
Goodell's Single Gear per doz. 15 75
Millers' Falls " " " 12 75
" " Double " " 15 25
Reciprocating.
Goodell's ..... per doz. $16 50
Bit Stock.
Standard List... 60&5¢@60¢@10¢

DRIVERS, SCREW.

Hurwood ..... 40-10&10¢
Standard ..... 65&10¢
Lock Ferrule ..... 60¢
Champion ..... 50¢
" Pattern ..... 70¢
Clark's Interchangeable ..... 30¢
Edison ..... 60¢
Reed's Lightning ..... 45&5¢
Goodell's Spiral ..... 50, 10, 5&2½¢
Yankee Ratchet ..... 50¢
" " Spiral ..... 50&10¢
Smith & Hemenway Co. ..... 40&5¢

EAVES TROUGH. GALVANIZED.

Territory. L. C. L.
Eastern ..... 80¢
Central ..... 75&10&7½¢
Southern ..... 70&20&7½¢
Western ..... 70&20&7½¢
S. Western ..... 70&20¢
Terms, 2¢ for cash. Factory shipments generally delivered.

See also conductor pipe and elbows.

EGG BEATERS—See Beaters.

ELBOWS.

Adjustable Stove.
Inches 5 6 7
Smooth, per doz. $0.70 $0.75 $1.10
Plan'd " 1.80 2.00 2.65
Corrugated Conductor,
Discount ..... 60&10¢
Corrugated Stove.
Inches 5 6 7
Smooth, per doz. $0.70 $0.80 $1.30
Pol'd " 1.30 1.40 2.10
Plan'd " 2.00 2.20 3.00
Four-Piece Stove.
Inches 5 6 7
Smooth, per doz. 0 15 $0.52 $0.80
Pol'd " .80 1.00 1.20
Plan'd " .90 1.40 2.40

EMERY CLOTH—See Cloth.

EMERY, TURKISH.

Size	5-lb. pkgs.	½ kegs,	kegs
No. 60 to 150, per lb.	6c	4c	4c
Flour "	5c	3c	3c

ENAMEL, IRON.

Nubian, ½-pt. cans ..... per doz. 1 65
Peerless 1 25
Keystone 1 25

EXTRACTORS, PIG.

See Forceps, Pig.

EYES.

Bright Wire Screw—See Goods, B. W
Drifting Pick ..... 60, 10&5¢
Hooks and—
Brass ..... 60¢
Iron ..... 70¢

FASTENERS, STORM SASH

Schroeder's ..... per doz. 85
Sensible ..... " 1 15

FAUCETS—See Cocks.

FILES AND RASPS.

Nicholson's ..... 70&10¢
Disston's ..... 75&10¢
Kearney & Froh ..... 75&10¢
Royal ..... 80&10¢

FLUE STOPPERS—See Stoppers.

FORCEPS, PIG.

Superior ..... per doz. $4 75
Whisson's Imp ..... " 5 25

FORKS.

These goods are sold net this year.
Barley.
Steel, New List ..... 70&10&5
Wood, 4 tines, per doz. $3.25
Coal, Coke, Cottonseed ..... 60¢
Hay.
Jackson, 2 tine ..... 60&10¢
" 3 " ..... 70¢
" 4 " ..... 70&7½¢
Digging ..... 70&10¢
Scoop ..... 40¢
Header.
Jackson, 3 tine ..... 66⅔&5¢
" 4 " ..... 65&10¢
Manure.
Jackson, 4 tine ..... 70&5¢
Ore ..... 40¢
Spading.
Jackson ..... 80&10¢

FRAMES.

Hack Saw.
Union ..... per doz. $5 75
Jenning's ..... " 6 25
Cast ..... " 2 50

FREEZERS, ICE CREAM.

Arctic.
Qts. 1 2 3 4 6
Each $1.10 1.30 1.50 1.80 2.30
Qts. 8 10 12 15
Each $2.95 3.80 4.50 5.20
White Mountain.
2) qt., New Platform... each $19 10
25 qt., " " " 22 60
25 qt., Sampson Power. " 43 50
40 qt., " " " 58 25

GAUGES.

Butt and Rabbet.
Stanley R. & L. Co.'s ..... 20&10¢
Cream Pail.
Fairmont ..... per doz. $3 75
Marking, Mortise, etc. ..... 50&10¢
Saw.
Atkin's, single, 55c; dbl. 80c per doz
Wire.
Disston's ..... 25¢

GIMLETS.

Discount ..... 35@40¢

GLASS, WINDOW.

First two brackets ..... 90&20¢
Above " " ..... 90&10¢

GLASSES, LEVEL.

Stanley R. & L. Co. ..... 50&5¢

GLUE.

Bull.
B Amber ..... per lb. 11 c
A White ..... " 14 c
H. S. Amber ..... " 15½c
Liquid.
Army & Navy ..... 40¢
Le Page's—
List "A" ..... 37½¢
List "B" ..... 33⅓¢
List "C" ..... 25¢

GOODS.

Bright Wire ..... 90&10¢

GREASE, AXLE.

Wood Boxes
Diamond ..... per gro. $5 50
Frazer's 9 50
Hub Lightning 5 25
Paragon 6 75
Wood Pails.
Frazer's, 15 lb. 80c; 25 lb. $1 30 each
Hub Lightning, 15 lb. 55c; 25 lb. 70c each.
Tin Cans.
Chamellene Graphite
1 lb per gross $9 50
3 lb per gross 25 00
5 lb per gross 37 00

GRIDDLES.

Soapstone ..... 40&10¢

GRINDSTONES.

Family.
Inches 7 8 9
Per doz. $8.25 9.00 10.50
Loose.
Per ton ..... $20 00@$21 00
Mounted
Ball Bearing 1 2 3
Each $3.15 3.00 2.85
Common Bearing . 1 2 3
Each $3.00 2.80 2.65

GUN WADS.
(See Ammunition.)

HAFTS, AWL.

Brad.
Common ..... per doz. $0 19
Peg.
Common ..... " 22
Patent, plain top ..... " 47
" leather top ..... " 52
Sewing.
Common ..... " 22
Patent ..... " 52

HALTERS.

Jute Rope ..... per doz. $0 85
Sisal Rope ..... " 1 85
Web ..... " 1 75
Leather, rope tie ..... " 6 50
" leather tie ..... " 8 50

HAMMERS, HANDLED.

Blacksmiths' Hand
Maydole's ..... 40&10¢
Engineers'
Maydole's ..... 40&10¢
Farriers'.
Maydole's ..... 35&5¢
Machinists'.
Maydole's ..... 40&10¢
Nail.
Triumph ..... 40¢
Quaker City ..... per doz. $3 00
Cast ..... " 1 10
Maydole's ..... 30&5¢
Riveting
Maydole's ..... 35&5¢
Shoe.
Cast ..... per doz. 75c
Tack.
All Iron ..... per doz. $0 35
Pol'd Iron, Hickory hdl. " 50
Mall Iron, Inlaid 1 55
Magnetic 1 2 3
Per doz 70c 80c $1 00
Magazine ..... per doz. $4 75

HAMMERS, HEAVY.

Heavy Hammers and Sledges.
Under 5 lbs ..... 80¢
5 lbs. and over ..... 80&10¢
Masons'
Single & Double Face ..... 75&10&5¢

HANDLES.

Auger.
Common Assorted . per doz. $0 38
Peck's Adjustable ..... " 2 10
Ives' " ..... per set 1 35
Axe ..... 60¢
Chisel.
Hickory, Tanged Firmer, Assorted, 33c, Large, 38c per doz.
Hickory, Socket Firmer, Assorted 27c, Large, 30c per doz.
Applewood, Tanged Firmer, Assorted, 29c, large, 38c per doz.
Applewood Socket, Firmer, Assorted ..... per doz 24c
Coal Pick ..... 50&10¢
Drifting Pick ..... 50&10¢
File, assorted 13c, large 16c per doz.
Hammer
Adze Eye ..... per doz. 40c
Blacksmiths' ..... per doz. 40c@70c
Machinists ..... " 45c@70c
Hatchet ..... per doz. 40c
Hay and Manure Fork ..... 33⅓&5¢
Hoe and Rake ..... 33⅓¢
Saw.
Plain ..... per doz. 75c
Varnished ..... " 80c
Screw Driver
Assorted ..... " 37c
Large ..... " 48c
Shovel and Spade ..... 33⅓¢

HANGERS.

Barn Door
Challenge ..... 60&10¢
Peerless ..... 70&10¢
Silver Star ..... 60&5¢
Storm King ..... 60@5¢
World's Best ..... 50¢
Wagner's Adjustable ..... 70&10¢
Warehouse ..... 60¢
Griffin ..... 70&10¢
Conductor Pipe.
Griffin ..... 70&10¢
Iwan's Perfection ..... 50¢
Eave Trough.
Baker's ..... per gro. $2 35
Imperial ..... 20¢
Wire ..... 35¢
Parlor Door.
Acme ..... per set $3 75
Ives' Improved ..... " 2 50
Lane's Standard ..... " 3 50
" New Model ..... " 3 10
Le Roy Noiseless ..... " 4 00
Richards' ..... 40-10&5¢

HASPS.

Hinge, Wrought ..... 50&5¢
With Staples—See Staples.

HATCHETS.

Challenge ..... 40¢
Blood's ..... 40&10¢
Cast Claw ..... per doz. $1 20@1 45
Cast Shingling ..... " $0 95@1 20
Germantown ..... 40¢
Plumb's ..... 40&5¢
Underhill's Star Lath ..... 40&10¢

HAY KNIVES.

See Knives.

HAY RACK BRACKETS.

Wenzleman's No. 1.... per doz. $ 9 00
" No. 2.... " 9 60

HINGES.

Blind.
Clark's Gravity ... per doz. sets 80c
Parker's ..... 65¢
Shepherd's Noiseless, for Wood casing ..... per doz. 1 05
Gate.
Clark's 1 2 3
Hgs & Ltch .... doz. $2.35 2.60 3.65
Hinges only .... " 1.70 1.90
Latches only ... " .70 .75
Knuckle ..... per doz. prs. $6 00
Leed's ..... " sets 6 75
Superior ..... " prs. 9 50
Spring.
American ..... 20¢
Bommer Bros. Ball B'g Floor.. 35¢
Bommer Bros. Spring Hinges.. 40¢
Chicago ..... 25&5¢
Columbia Dbl. Acting .... 40&10&5¢
Gem ..... 25¢
Ideal Detachable .... per gro. $11.10
Matchless ..... 30¢
New Idea ..... per gro. $8.40
Oxford ..... 20¢
Wrought Iron.
New Lists .....
Griffin.
Light Strap Hinges ..... 65&10&5¢
Heavy Strap Hinges ..... 75&10¢
Light T Hinges ..... 60&10&7½¢
Heavy T Hinges ..... 55&10¢
Extra Heavy T Hinges .... 70-10&5¢
Cor. Heavy Strap ..... 75&10¢
Cor. Ex. Heavy T ..... 70&10&5¢
Screw Hook and Strap.
6 to 12 in ..... per 100 lbs. $3 90
14 to 20 in ..... " " 3 65
22 to 36 in ..... " " 3 40
Screw Hook and Eye.
⅝ in ..... per 100 lbs. $6 55
½ in ..... " " 7 60
⅜ in ..... " " 9 45

HOES.

Garden ..... 75&5¢
Grub.
Extra ..... 70¢
Hazel ..... per doz. $5 00
Ladies' and Boys' ..... 75&10¢
Mortar ..... 80¢
Planter's Eye ..... 62½¢
Weed ..... 75&15¢

HOLLOW WARE—See Ware

HOOKS.

And Eyes.
Brass ..... 50&10&5¢
Iron ..... 65&10¢
Awning ..... per gro. $1 80
Belt.
Brown's ..... 70&5¢
Jones' ..... 65&5¢
Bench.
See Stops, Bench.

Box.
Inch..... 6 8 10 12
Per doz.....$1.35 1.65 1.75 2.30
Humason & Beckley's, per doz. 2 50
(See Goods, Bright Wire.)
Bush.
Common Axe Handle. per doz. $7 00
Chain.
Inch... 1/4 & 5/16 3/8 7/16 1/2
Per 100 $7.60-8.10 9.75 11.50 12 60
Clothes Line.
Japanned.....per doz. 22c@24c
Galvanized..... " 40c
Coat and Hat.
Cast Iron .....per gro. 72c@$1 50
Gem Wire.....70%
Conductor.
Malleable.....50&10%@50&10&5%
Wrought .....40&10%@50%
Corn.
Common, unpolished, per doz. $1 35
" polished.... " 1 80
"Cut Easy"..... " 2 75
Gate.
See Goods, Bright Wire.
Grass.
Common. Nos..... 2 3 1
Per doz.....$1.50 1.60 1.70
German.....per doz. 1 75
Little Giant..... " 3 00
Hammock.
With Plate.....per doz. 50c
With Screw..... " 45c
Lambrequin, or Drapery, per gro. 21c
Picture .....50%@50&10%
Potato and Manure.....70&12½%
Screw.
Brass.....80&5%
(See Goods, Bright Wire.)
Seat Spring.....per ℔. 5½c

HOOPS, TUB.
Ever Ready .....per case $1 70

HOSE, GARDEN.
3 ply ¾ in. 85 ℔. pressure per ft....4½c
3 " ¾ " 50 " " " 6½c
3 " ½ " 70 " " " 6½c
3 " ¾ " 70 " " " ....8 c
4 " ½ " 80 " " " ....8 c
4 " ¾ " 80 " " " 9½c
6 " ¾ " 125 " " " 10½c
8 " ¾ " 150 " " " 12c
Cotton ¾ in. 75 ℔. pressure per ft. 6c
" ¾ " 150 " " " 8c

HUSKERS.
Boss.
Nos..... B BB E 200
Per doz..... $2.00 2.00 1.75 .80
Nos..... L PP P K
Per gro..... $5.40 6.00 6.00 10.50
Nos..... 2000 3000 O
Per gro..... $3.50 9.00 24.50
Nos..... 60 59 64 68
Per doz..... $2.15 2.15 .85 1.45
Brinkerhoff's.
Per gro.....$14 40
Clark's
Nos..... 1 63 200 400
Per doz..... $0.40 .75 .75 1.75
Nos..... 20ds 40s 3s 4s
Per doz..... $0.85 1.50 1.25 1.25
Nos..... A AB F
Per doz..... $3.00 $4.25 $2.50

IRON.
See Metals—First column.

IRONS.
Curling.
Common.....per doz. 33c@48c
Princess .....per doz. $0 65
Yale..... " 84
Oxford ..... " 1 15
Ruby ..... " 1 50
Tourist, Folding..... " 90
Pinking ..... " 70
Plane.
Wood Bench.....20&5%
Stanley R. & L. Co. (new list) ...25%
Sad.
Charcoal .....per doz. $11 00
Common, Polished, per 100 ℔. 3 50
" Nickel plated, " 4 50
Chinese Polishing.....per doz. 7 40
Laundry. No. 1 ..... " 5 75
" No. 2 ..... " 6 25
Mrs. Pott's,
No. 50 J, Enterprise...per set 79c
No. 55 J, " ... " 76c
No. 50 T, " ... " 83c
No. 55 T, " ... " 79c
No. 50, Howells..... " 67c
No. 55, " ..... " 71c
Tailors' Sad.....per ℔. 4½c
" Geese ..... " 4½c
Tuyere.
Single Duck Nest.....per doz. $5 25
Double " " ..... " 6 25
Sutton .....each 2 60

JACKS.
Locomotive.....75&5%
Wagon.
Oliver.
Nos 0 00
Each..... $0.60 $0.65
Standard.
Nos..... 1
Each..... $0.60 1.00
Wilcox.
Nos..... 1 2 3
Each..... $0.85 1.20 2.90

KETTLES.
Brass.....15%
Cauldron 45%
Copper.....per ℔. 27c
Maslin 70%
Sugar .....50&5%

KNIVES.
Beet Topping.
Clyde, 9-in. Scimiter Blade, dz. $3 85
California.....3 40
Cooper's Hoop.....15%
Corn.
Clipper.....per doz. $1 75
Disston's..... " 2 75
Earle's ..... " 3 00
Woodford..... " 2 25
Drawing.
Standard 70%
Adjustable.....15%
Barton's Carpenters' 10%
Folding Handle.....25&5%
Hay.
American, Sickle Edge..doz $10 50
Canton, Sickle Edge..... " 8 25
Heath's ..... " 8 00
Iwan's Sickle Edge..... " 9 50
Iwan's Impv'd Serrated.. " 10 00
Lightn'g, Holt's Genuine " 6 50
Lightning Pattern..... " 6 00
Wadsworth's Sp'r Point " 8 50
Hedge.
Challenge ....per doz. $6 00
Disston's..... " 3 75
Mincing.
Common, Single ..... " 40
" Double ..... " 50
Streeter, 4 Blade..... " 1 30
" 6 Blade..... " 2 00
Putty.
Common..... " 60@1 00
Lander's..... per doz. $1 40@1 75
Scraping.
Beech Handle .....75@1 00
Lander's .....5 25@6 00

KNOBS.
Door.
Mineral .....per doz. $0 73
Porcelain ..... " 83
Jet..... " 83

LADDERS.
Common Long.
Per ft .....9c@14c
Extension.
Per ft 12c
Step.
Common, per ft.....6½c
" with Shelf, add 10c.
Keystone..... .....15c
Triumph, per ft 20c

LANTERNS.
Bull's Eye Police.
3-in. Flash Light.....per doz. $6 00
2¾-in. Regular..... " 4 00
3-in. Regular..... " 5 00
Tubular.
Buhl.....40&10&5%

LEADERS, CATTLE.
Nos 1 2 3
Per doz.....$0 55 $0 70 $2 75

LEATHER, LACE.
Cut.....40&10%
Sizes.
Ex. Quality.....per sq. ft. 24c

LEATHERS, PUMP.
Valve and Plunger 45%

LIFTERS.
Stove Cover.
Coppered.....per gro. 1 75@3 65
Ideal..... " 5 50
Alaska, Coppered " 4 00
" Nickeled. " 5 00
Transom.
Payson's.....80%

LINES.
Chalk.
Twisted in 20-ft. hanks.
Nos..... 4 6 7 8 9
Per gross $1 50 2 00 2 25 2 50 3 00
Twisted in 50-ft. balls.
Nos..... 1 2 3 4
Per doz.....25c 30c 35c 41c
Braided in 20-ft. hanks.
Nos 0 1 2 3
Per doz.....23c 25c 31c 35c
Masons', in 100-ft. hanks..doz... 80c
Clothes.
60-ft. Jute.....per doz. $0 80
72-ft. " ..... " 1 00
60-ft. Sisal ..... " 1 30
72-ft. " ..... " 2 00
50-ft. Cotton ..... " 1 00
50-ft. Braided Cotton. " 1 10

LINING, STOVE.
In Bricks.....per crate 42c

MACHINES.
Boring. Without Augers / With Augers
Angular.....per doz. 3 00 4 40
Upright..... " 2 60 4 00
Leather Riveting.
Chicago, Pomeroy....per doz. $9 00
Excelsior ..... " 2 00
Handy ..... " 2 00
Little Giant..... " 3 00
Pony, Pomeroy..... " 7 2
Washing.
Boss
Per doz.....$55.20 61.80 68.40
Winner.....per doz. 54 00
Keystone ..... " 54 00
Round Wayne..... " 26 50
U. S. Steel..... " 60 00
Advance, f.o.b. Chic'go " 24 50

MAIL BOXES.
See Boxes.

MALLETS.
Carpenters'.
Fibre Head, Small ...per doz. $5 00
" " Medium. " 5 75
" " Large... " 7 00
Round Hickory..... " 1 75
" Lignumvitæ .. " 2 85
Square Hickory..... " 1 75
" Lignumvitæ.. " 2 40
Tinners'.
Applewood ..... " 1 70
Hickory..... " 75@1 15
Hickory Sheet Iron.. " 1 30

MATS.
Door.
National Rigid.....50, 10&5%
Queen Flexible.....50%
Stove.
No. 2. .....per gross. $2.50
No. 1. ..... " 2.75
No. 1 Asbestos Toasters, or wire-covered Stove Mats, with handle.....per doz. 1.00
No. 2 Asbestos Toasters, with ring.....per doz. .55

MATTOCKS.
Warwood ....70&5%
Extra 60%

MAULS.
Iron. lbs. 10 13 16 1
Per doz. ...$3.75 4.25 5.00 5.35
Wood face, lbs. 10 12 14
Per doz $5.00 5.50 6.00
Wood Choppers'.
Lake Super'r & Oregon Pat.. 80&5%

MEASURES.
½ pk. 1 pk. bu
Galvanized. per dz. $2.00 $2.75 $3.60
Japanned... " 1.50 2.20 2.90

METAL.
Babbitt.
Alm .....per lb. 7½c
Best..... " 13 c
Common, No. 4..... " 6½c
Copper Mixed ..... " 19 c
Tony ..... " 9½c
See Metals—In first column.

MICA.
First Quality 20%
Second Quality.....20&10%

MILLS, COFFEE.
Enterprise 35%
Parker.....50%
Arcade 50%

MITRE BOXES.
See boxes.

MOPS.
Erie.....per doz. $3 15
Handled Cotton.
Pounds..... ¾ 1 1¼ 2
Per dozen...$2.00 2.25 2.65 3.25

MOWERS, LAWN.
Ball-Bearing.
Inches..... 14 16 18 20
Each $6.25 6.75 7.25 8.00
Cheap Grades.
Inches..... 12 14 16 18
Each $2.25 2.25 2.25 2.50
Clipper .....50, 10&10%
Yale.
Inches..... 4 16 18 20
Each $3.50 3.75 4.00 4.25
Philadelphia.
All Styles Except A & E 60, 10&10%
Style A .....50&10%
Style E, High Wheel..60, 10, 10&10%
Drevels.....50%
All Day.....Net Price

NAILS.
Cut Steel.....rates, $2 10
Horse Shoe.
Ausable .....55&5%
Capewell 15%
Perfect.....55&5%
Putnam 20-5%
Star.....35&5%
Clover Leaf..... ....per lb. net, 10½c
Picture.
Brass Heads .....33⅓&5%
Jddu's..... ....50&10%
Brads.....85&10%
Furniture 50%
Wire.
Small Lots.....$2 15
Carload " 2 05
Cement Coated..... 1 90

NAIL PULLERS.
See Pullers.

NAIL SETS.
See Sets.

NETTING, POULTRY.
Galvanized before Weav'g .80&10&5%
" After Weaving...80&10%
Cut Pieces.....65&5%

NIPPERS.
End Cutting.
Stubb's Pattern. Ins. 5½ 6
Per dozen $4.00 $4.25
End and Diagonal Cutting.
Swedish Side.....75%
Utica Drop Forge & Tool Co...60%
Hoof.
Heller's .....40&10%
V. & B.....55-5%

NOZZLES.
Hose.
Genuine Gem.....per doz. $3 15
Magic..... " 3 50
Mystic..... " 2 90

NUTS, HOT PRESSED.
Square Blank.
In. ½ 9/16 5/8 7/16 ¾ ⅞
℔. 9c 7½c 6c 5½c 4½c 4½c 4½c
Square Tapped.
In. ½ 9/16 5/8 7/16 ¾ ⅞ 1
℔. 12c 10c 7½c 6½c 6½c 5½c 5½c
For 5 lb. boxes add ½c per ℔. to above prices.

OILERS.
Chase Pattern.
Brass and Copper.....60&10&5%
Zinc .....60&5%
Engineers'
Cannon 55%
Tin.....per doz. $2.00@$2.25
Machine.
Common .....per doz. $0 50
Copper Plated Steel.. " 85
Malleable Iron.....60, 10&5%
Jappaned.....65@75c

OPENERS.
Box.
Inches..... 10 12
Flat .per doz $2.85 3.60 4.15
Round " 2.10 2.25 2.75
Can.
Delmonico.....per doz. $1 30
Never Slip..... " 0 65
rate.
V. & B..... " 5 75

OUTFITS, COBBLING.
Home.....per doz. $11 50
Economy..... " 4 20
Fireside..... " 10 00

PADLOCKS.
Standard Wrought .....75&10%
Champion 50%
Eureka.....40, 10&5%
Yale .....60&5%

PAILS.
Cream.
14-qt., without Ga....per doz. $2 50
20-qt., " " ..... " 3 00
20-qt., with Gauge.... " 3 50
Sap.
10-qt., Galvanized.....per doz. 1 60
12-qt., " ..... " 1 85
Stock
Galvd. qts. 14 16 18 20
Per doz.....$3.50 3.75 4.50 5.00
Water.
Galvanized, qts 10 12 14
Per doz $1 60 1.85 2.10
Wood.
Cable, 2-Hoop ..... .per doz. $1 70
" 3-Hoop..... " 1 90
Cedar, 3-Hoop..... " 2 85
Standard, 2-Hoop..... " 1 60
" 3-Hoop..... " 1 80

PANS.
Dripping.....60&5%
Fry.
Common.....75&10%
Acme 70%
Roasting.
Paxton.
Nos..... 1 2 3 4
Per doz.. $4.75 $5.75 $6 50 $7.50
Neverburn.. 4.00 4.50 5.50 6.50
Savory No. 200 .....per doz 8.50

PAPER.
Building.
Plain .....per 100 lbs. $1 10
Tarred..... " 1 20
Tarred Felt..... " 1 65
No. 20, Red Rosin.....pr roll 40
No. 30, Red Rosin ..... " 55
Sand and Emery.
Challenge.....50&10%
B. & A.....50%
Wrapping
Drab Floer.....per ℔. 3½
Rag..... " 2½

PARERS.

Apple.
Bay State.....per doz. $13 00
Turntable ..... " 6 00
White Mountain .... " 4 75
Reading ..... " 6 50

Potato.
Goodsell's Saratoga 10½ in. doz. 6 50
" " 5 in.. " 5 50

PICKS.

Adze Eye Ore .....70¢
Drifting and Poll Picks.....70¢
Extra Railroad .....70&5¢
Surface.....65&5¢

PINCERS.

Carpenters', cast steel.

In.	6	8	10	12
Per doz.	$1 80	$2 40	$2 80	$3 50

Blacksmith's .....45¢
Heller's .....40¢

PINS.

Clothes.
Common.....per box of 5 gro. $0 48
Hoyt's..... " " 31
U. S..... " " 70

Picket.
Fluted 15 in.....per doz. $0 70
" 21 in..... " 1 60
Spiral ..... " 1 90

PIPE.

Conductor.
Territory.
Eastern.....60&20¢
Central.....70¢
Southern.....65&10¢
Western.....65&10¢
Southwestern.....60½&7½¢

Lead.
Full coils.....per ℔. 7½c
Cut " ..... " 7½c

Stove.

Acme—In.	5	6	7
Smooth, per jt..	8½c	9½c	10½c
Planished " ..	32 c	32 c	43c

Peerless—Smooth.	7½c	8 c	9½c
Polished	14½c	15½c	18c
Plan'hed	28 c	31 c	35½c

Made-up—In.	5	6	7
Smooth	7½c	8c	9½c

7 to 6 in. Smooth Tapers, pr jt..13c
6 in. Smooth T's..... " ..27c
7 to 6 in. Planished Tapers.....45c

Yale Patent Lock Pipe—Stove.

	5"	5½&6"	7"	7 to 6"
	Cents			
Battle Ax Blue Smooth Steel.	6	6½	7½	8
Double Lock Peerless Blue Smooth Steel.	6¾	7½	8½	8¾
Can't Slip Blue Smooth Steel.	6¾	7½	8½	8¾
Duplex Polish'd Blue Smooth Steel.....	8¾	9½	10½	10¾
Yale Russia Fin	15½	16½	17½	17¾
Plan'h'd Duplex	29½	30½	37	38
Galvano, Galvanized Iron..	15	16	17	17½

If wanted made up, add per joint for grooved, 1c; riveted, 1½c. Crating made-up pipe extra.

Wrought Iron Gas Pipe
⅛@¼-in., black.....discount, 60%
⅜@½-in. ..... " 60,10&5%
¾-in. to 6-in.. black... " 70%
7 " 12 " .. " 62½%
⅛@¼ galvanized " 42%
⅜@½ " " 50%
¾ " 6 " " 57½%
7 " 12 " " 45%

PLANES.

Sargent Iron Bench.....60&10¢
Stanley Iron Bench.....25&10&5¢

PLANTERS.

Corn.
Monitor.....per doz..$7 75
Triumph..... " .. 6 00
Segment..... " .. 9 00

Potato.
Acme.....per doz..$6 25
Challenge..... " ..11 00
Pingree..... " .. 2 25
Eureka ..... " .. 6 25

PLATES, TIN.

See Metals in Column 1.

PLIERS.

Button's—In. 4½ 6 8 10
Per doz.....$2.75 $3.35 $4.15 $5.15

Button's Pattern.
In. 4½ 6 8 10
Per doz.....$2.15 $2.40 $2.90 $3.75

Cutting.
Bernard's.....30¢
Lodi.....50¢

End and Diagonal Cutting.
Swedish Side .....70¢
Utica Drop Forge & Tool Co.....50¢

Fencing.
Farmers' Choice.....per doz ..$8 00
Russell's..... " .. 8 25

Flat and Round Nose.
Bernard's.....30¢
German .....65¢
Lodi.....50¢
Paragon.....50¢

Gas—In. 6 8 10 12
Per doz...$3.35 $3.00 $4.00 $5.00

Tinner's.
Hollow.....40¢
Solid.....each..5½c

PLUMBS AND LEVELS.

Common.....70&10¢
Cook's.....40¢
Davis' Iron.....25¢
Davis' Inclinometer.....15¢

Stanley's.

Nos.	00	0	2	3
Per doz..	$4.50	$5.00	$7.35	$8.40
Nos.	30	25	50	35
Per doz.	$12.00	$17.00	$17.00	$12.00

POINTS.

Drive Well Points.....75&10¢

POKERS—STOVE.

Wr't Steel, str't or bent, pr doz.$0.55
Wr't Steel, wood hand'l " " .80
Nickel pl'td, coil hdl's.. " " .65

POKES—ANIMAL.

Brown's, wr't steel, per doz.$5.00@6.00

POLISH.

Metal.
Pride of the Bar.....$1.60
Putz Cream.

Pts.	1-6	½	1
Per doz.....	$0.80	$1.10	$1.65

Pts.	1	2	4	8
Per doz	$2 75	$4.50	$7.50	$12.50

White Silk half pints, per doz.$2.00
White Silk, 6 oz. cans, per doz. 1.00
Wondershine

Pts.	1-6	½	1	2
Per doz.....	$0.70	$1.35	$2.25	$3.00

George William Hoffman.
U. S. Metal Polish Paste, 3 oz. boxes, per doz., 50c; pr. gro ..$4.55
½-lb. boxes, per doz..... 1.20
1-lb. boxes, per doz..... 2.25
U. S. Liquid, 8 oz. cans, per doz., $1 25; per gro.....12.00
Barkeepers' Friend Metal Polish, per doz., $1.75; per gro..18.00

Shoe.
M. D. C.....per doz. 36c@50c
F. C. O..... " 40c
T. M..... " 55c@$1.75
Imperial.....per gr.....$5.00

Stove.
Black Eagle, 1 ℔ cans. pr gr..$15.00
Black Silk—
5 ℔. pail.....$0 70
Paste, 5 oz. cans....per doz. 75
Paste, ½ lb. cans.... " 1 00
Liquid, ½ pint cans..per doz $1 00
Liquid, 6 oz. cans... " 75
Steel Range Gloss.... " 1 75
Blackene, 1 ℔ cans....pr gro. 13 00
Black Jack, ½ ℔ cans.. " 9 25
Dixon's Carb. of Iron.. " 5 75
Nickel Plate..... " 4 50

POPPERS, CORN.

Round or Square, 1 qt. per dz, ..$ 95
Square, 1½ qt..... " 1 10
Square, 2 qt..... " 1 25
2 qt. Reversible..... " 1 60

POTS, FIRE.

Bernz.....each $3 85
Clayton & Lambert's, ea..$4 75@6 25
Gate City.....each 6 25
Gem.....ea..$6 75@8 50

POWDER.

See Ammunition.

PRESSES, FRUIT AND JELLY.

Enterprise Manufacturing Co.....25¢
Henis .....per doz. $1 85

PRIMERS.

See Ammunition.

PRUNERS.

Disston's Pole.....per doz. $6 50
Henry's Improved..... " 75&10¢
Water's Improved..... " 80¢

PULLERS.

Cork.
Daisy.....each $3 10
Phoenix..... " 1 40
Quick and Easy..... " 2 70

Nail.
Giant.....per doz..$10 50
Giant Pattern..... " .. 6 00
Jumbo ..... " .. 9 00

Tack—Giant ..... " .. 40

PULLEYS.

Awning—Jap'd.....60¢
Clothes Line.....50&10¢
Hay Fork.
Iron Wheel, 5 in.....per doz. $1 75
Wood Wheel, 6 in.... " 1 75
Wood Wheel, 6 in., pass knot..... " 2 15
Hot House—Jap'd .....50&10¢
Screw..... " .....60¢
Side ..... " .....50&10¢
Sash.
Clark's .....per doz $0 36
Common Sense, 2 in .. " 28
" Pattern. 2 in.. " 20
Empire..... " 20
Ideal..... " 20
Steel..... " 25

PUMPS

Pitcher Spout.

Nos.	1	2	3	4
Each	$.93	1.05	1.17	1.45

Spray.
Blizzard.....per doz. $14 50
Cyclone tin..... " 3 40
" copper ..... " 6 75
Daisy..... " 9 00
Little Giant.....each 2 25

PUNCHES.

Conductors'.
No. 22.....per doz. $2 25
Machine.....per ℔. 19
Saddlers'.
Common.....per doz. 60c@70c
Good..... " 72c@84c

PUTTY.

In Bladders.
Strictly pure.....per 100 ℔s. 2 35

RAIL.

Barn Door.
Crescent T..... 4½c
Double Flange..... 2½c
Matchless, 1 in..... 3c
Match ess, 1½ in 3½c
Storm King..... 4c
World's Best 7c
Sliding Door
Painted steel.....per ft. 4½c
Bronzed wrought iron... " 8½c

RAKES.

Coal or Wood.....per doz. $5.20
Garden.
Steel .....75&10¢
Steel, bow.....75&7½¢
Malleable Iron, heavy.....70&10¢
Hay.
Wood.....$1.50@$3 00
Lawn—Wood.
XXX .....per doz. 3 00
Automatic ..... " 6 00
Hustler ..... " 3 50
Jumbo, 36 teeth..... " 6 00

RASPS—See Files.

RAZORS.

Bo-ras-ic .....50¢
Red Devil.....50¢
Tree Brand .....50¢

REGISTERS.

List December 5, 1904.

Black and White Japanned. .....70¢
Nickel Plated .....70¢
Electroplated, Brass, Bronze or Copper .....70¢

RINGS

Bull.

	2½ in	3 in.
Copper		
Per doz.....	$1.10	$1.35
Rea's Impro'd Self Piercing copper, pr d'z.	1.85	
Steel per doz..	.85	.95
Nickel Plated	1.35	...

and Ringers—Hog.
Blair's Rings.....per doz. $0 58
Blair's Ringers..... " 75
Brown's Rings..... " 50
Brown's Ringers..... " 80
Champion Ringers... " 1 60
Hill's Ringers..... " 70
Hill's Ring, boxes..... " 47
Major Rings ..... " 60
Perfect Ringers..... " 95
Wolverine Rings..... " 1 40
Wolverine Ringers... " 80
Fruit Jar
White.....per ℔ 30c
Key.
Split, round. .....per doz. 17c
Split, square..... " 32c
Ball, Round..... " 32c

RIVETS.

and Burrs.
Copper Belt .....33½&5%
Coppered Iron .....75¢
Tinners' .....70¢
Hame .....per ℔. $0 10
Slotted Clinch.....per doz. 40c@45c
Tubular
Nos 1 and 2 assorted sizes, doz. 45c

RIVET SETS.

See Sets.

ROPE.

Cotton.
¼, 5-16-in. Com. on reels. per ℔. 11½c
¼, 5-16-in. Com. in coils .. " 12c
¼, 5-16 Imperial in coils . " 21c
Sisal.
Rates 10½c
Premier rates.....per ℔. 8½c
Pure Manila.
Rates.... ..... " 13½c
Premier, rates ..... " 12½c

RULES

Boxwood.....60&5¢
Ivory .....45&5¢

SASH WEIGHTS.

See Weights.

SAWS.

Back.
Atkins'.....40¢
Disston's .....30&5¢
Jackson's.....30&5¢
Butchers'.
Atkins' Nos. 1, 2, 3, 5, 7..... ..40¢
Atkins' Nos. 77, 78.....60¢
Atkins' No. 79.....50&5¢
Disston's.....40&5¢
Circular.
Atkins'.....50¢
Disston's.....50¢
Hiles'.....50&10¢
Compass.
Atkins' Nos. 2 & 3 .....40¢
Atkins' Nos. 4 & 5.....40&10¢
Common.....per doz. $1.35@$1.60
Disston's.....25&7½¢
Cross-Cut.
Atkins'.....35&40¢
Disston's..... 40&10¢&50¢
Dehorning.
Atkins'.....per doz. $5 50
Disston's..... " 5 75
Hack.
Atkins'.....40¢
Disston's.....25¢
Keystone.....30¢
Hand and Rip.
Atkins'.....40¢
Brown's .....30&7½¢
Disston's No. 7.....30&10¢
Disston's Nos. 8, D8, 12, 76, 112, D100, and 120 (new list) 25&10¢
Keystone.....35&5¢
Enterprise, hand.....per doz. $5 00
Our Saw, hand..... " 4 00
Our Saw, rip..... " 4 50
Keyhole—Disston's.....30&5¢
Atkins' No. 5.....40&10¢
Atkins' No. 6.....40¢
Kitchen.
Atkins'.....50&10¢
Sterling.....25¢
One Man .....50¢
Panel.
Atkins'.....40&10¢
Brown's.....30&7½¢
Disston's No. 7.....35&5¢
Disston's No. D100.....30&5¢
Pruning.
Atkins' Nos. 1, 2 & 3.....35¢
Atkins' Nos. 5, 6 & 7.....40¢
Brown's.....25&7½¢
Disston's.....30&5¢
Wood.
Atkins'.....40&10¢
Common.....per doz. $4 50
Clover Leaf..... " 6 50
No. 44 Bishop..... " 6 50
Perfection ..... " 8 00
Crescent..... " 5 00

SAW BUCKS—See Bucks.

SAW SETS—See Sets.

SAW TOOLS—See Tools.

SAW FRAMES.

Common, plain.....per doz. $1 25
" painted.... " 1 70

SCALES.

Counter.
Pelouze..... .....40&10¢
Platform.
Osgood.....50¢

SCOOPS.

Grain.
½ Bu. "Hercules,"..per doz. $13 75
1 " " " 15 00

SCRAPERS.

Boz.
Stanley's Adjustable, per doz.$3 00
Triangular..... " 4 00
Cabinet.
Cast Steel..... " 60c@75c
Stanley's No. 80..... " $7 80
Road.

Cubic ft.	7	5	3
Without runners, ea.	$4.00	2.75	3.50
With runners.... "	4.25	4.00	3.75

SCREWS.

Bench.

Iron, in,	1	1½	1¾
	$3.25	$3.75	$4.50

Wood, white maple..per doz. $3 50
Hand—Wood.....20&5¢
Hand Rail.....80&10¢
Jack .....70&10&10¢
Lag or Coach—all sizes, gimlet pointed.....75&5¢
Screw—Centennial.

Nos.	1	2	3	4	5	6
Per doz.	18c	20c	25c	30c	23c	25c

Wood.
F. H. Bright.....87½&10&5¢
R. H. Blued.....85&10¢
F. H. Jap'd.....82½&10¢
F. H. Brass.....85&10¢
R. H. Brass.....80&10¢
R. H. Nickel Plated.....80¢

SCYTHES.

Clipper, grain.....per doz. $9 50
Clipper, grass ..... " 6 75
Vulcan .... " 6 50
Honest Dutchman..... " 8 00
Be Ve B..... " 8 00

SHAVING SETS.
Smith & Hemenway.....60%

SETS.
Nail.
Round, common.....per doz. $0 33
Square, " ..... " 42
Octagon " ..... " 33
No. 5 Square..... " 75
Cup Point, knurled, pr. doz..... 75
Rivet.
Farmers'.....per doz. $1 20
Tinners'.....50&10%
Saw.
Aiken's Pattern.....per doz. $3 50
Common Lever..... " 1 20
Disston's Monarch... " 6 50
" X Cut..... " 12 00
German ..... " 1 05
Morrill's Old Style... " 5 00
" Pattern.... " 3 25
Leach's..... " 4 80
Nash's Hand..... " 3 15
" X Cut..... " 4 20
Stillman's Lever..... " 1 30
" X Cut..... " 2 50

SHARPENERS, SKATE.
Diamond.....per doz. $1 60
Smith & Hemenway.....20%

SHAVES, SPOKE.
Iron.....per doz. $1.10@$1.85
Wood..... " 2.75@ 4.75
Bailey's.....50&5%
Goodell's.....15%
Stanley's Universal.....30&5%

SHEARS.
Pruning.
Buckeye, No 1.....per doz. $5 75
" No. 2..... " 7 40
California Pat.. 9 in . " 3 20
" " 10 in.. " 4 00
Draw Cut, No. 3..... " 13 75
" " No. 4..... " 16 50
Henry's Pat. 0 01 14 012
Per doz.....$1.40 $2.10 $2.90 $2.80
Star.....per doz. $4.00
Sheep—No. BBA.
Inches..... 6 6½ 7
Reg. Grip..... $11.25 $11.50 $12.00
Nar. Grip, doz. 11.00 11.25 12.25
Tinners'—See Snips.

SHEAVES, SLIDING DOOR.
Common.
Inches..... 3 4 5
Per set..... $0.34 $0.42 $0.70
Hatfield's.
Per set..... .75 1.00 1.60

SHELLS—See Ammunition.

SHELLERS, CORN.
Union..... per doz. $6.75

SHIELDS.
Expansion Bolt Shields.....50&10%

SHOES.
Conductor.....60&10%

SHOE POLISH—See Polish.

SHOT—See Ammunition.

SHOVELS AND SPADES.
Coal.
No. 2 Woodford .....per doz. $5 50
No 182. ..... " 6 00
Ames' new list.....Discount 12½%
Per Doz.
Neverbreak, hollow bck, blk. $15 75
National.... " " " 14 75
Buckeye .... " " " 10 00
Mohawk.... " " " 9 00
Drain.
Iwan's Perfection.....50%
Railroad, Etc.
Black Diamond.....per doz $10 50
Crescent..... " 5 75
Keystone..... " 8 75
Star..... " 4 75
Vaterland..... " 9 50
Hollow Back..... " 4 75
Ames' new list..... Discount 12½%
Snow.
Per doz.....$1.65@$9.00
Alaska Steel.
D Handle.....per doz. $3 50
Long Handle..... " 3 00

SINKS.
Cast Iron.
Painted..... 60%
Enameled, White.....60%
Wrought Steel.
Painted, new list.....40 10&5%

SLEDGES—See Hammers.

SNAPS, HARNESS.
Champion.....33⅓%
German Pattern. .....30&5%
Judd's Pattern.....50%

SNATHS.
Double Ring, Bush.....per doz. $6 50
Patent Loop " .... " 6 00
" " Grass..... " 5 75

SNIPS, TINNERS'.
Wiss.....40&10%
National.....40&10%

SOLDER—See Metals.

SPRINGS, DOOR.
Perfect.
Nos..... 1 2 3 4
Per doz.... 30c 35c 40c 45c
Reliance.
Per doz.....light $1.25; heavy $2 50
Star.
Per doz..... light 90c; heavy $1 35
Torrey's.....per doz. $1 35
Warner's No..... 11 13
Per doz..... 75c $1.35

SQUARES.
Steel and Iron.....75%
(Add for Bluing, $2.50 per doz., net)
Mitre.
Stanley's No. 12 .....60%
Try.
Stanley's No. 20, new list. .45&10%
" No. 12 and 14.....55%
Try and Bevel.
Stanley's.....55&5%
Try and Miter.
Fox's.....per doz. $5.75
Winterbottom's 70%

SQUEEZERS, LEMON.
Common Wood.....per doz $0 70
Porcelain Lined, Wood. " 1 25
Boss, malleable iron.... " 75
Iron Frame, p'rel'n bowl " 2 25
" glass bowl... " 2 50
Little Giant, tin'd iron. " 4 00
Drum. japanned..... " 5 60
Drum, nickel plated.... " 4 50

STAPLES.
Blind.
Barbed.....per lb 9½@9½c
Butter Tub..... " 8@8½
Fence—less than carload.
Polished.....per 100 lb $3 30
Galvanized ..... " 2 60
Netting.
Galvanized.....per 100 lb 4 00
Wrought.
Wrought Staples, Hasps and Staples, Hasps, Hooks and Staples, and Hooks and Staples.....85&10%
Extra heavy.....85%

STEELYARD.
Discount 30%

STONES.
Axe.
Hindostan.....per lb 5½@7c
More Grit ..... " 9½c
Washita..... " 17 c
Emery.....60%@60&5%
Oil—Mounted.
Arkansas Hard.....per doz. $23 00
Arkansas Soft..... " 15 50
Hindostan .....per lb 6½@6½
Oil—Unmounted.
Arkansas Hard.....per lb $3 05
Arkansas Soft..... " 1 10
Lilly White..... " 45
Queer Creek..... " 15
Ouachita ..... " 38
Washita ..... " 26
Sythe.
Black Diamond.....per gro. $8 00
Crescent ..... " 4 25
Gem Corundum..... " 7 50
Green Mountain..... " 4 50
La Moille..... " 7 00
Quinnebog..... " 5 00
Red End..... " 3 75

STOPS, BENCH.
Hotchkiss'.....per doz. $3 50
Stearns'..... " 4 75

STOPPERS, FLUE.
Common.....per doz. $0 40
Crown..... " 45
Gem, flat, painted..... " 85
Gem, cor'd, decorated.. " 70
Kirch's..... " 90
Perfect ..... " 70@85
Skinner's Common Sense " 80

STOVE PIPE—See Pipe.

STOVE BOARDS—See Boards.

STOVE POLISH—See Polish.

STRAPS.
Scoop.....per doz. prs. $1 85
Skate..... " " 60@70c

STRETCHERS.
Carpet.
Bullard's.....per doz. $3 90
Exelsior ..... " 5 25
Malleable Iron..... " 70
Perfection..... " 6 30
King..... " 4 50
Wire.
N. S. Elwood's..... " 6 00
O. S. Elwood's..... " 6 00
Little Giant..... " 5 75
Safety ..... " 10 00
Star Lever..... " 6 25
Canton Tackle Block. " 9 50
Warner's ..... " 6 25

SWIVELS.
Malleable Iron.....per lb 07
Wrought Steel.....per gro. $4 50

TACKS.
American Cut.....90&20%
American Wire.....85&25&10%
Bill Posters Cut .....90&20%
Blued Carpet.....90&10%
Tinned Carpet.....90&10%
Gimp.....90&10%
Upholsters' Cut .....90&33⅓%
Upholsters Wire.....90&10%
Double Pointed.....90&20%
Copper.....per lb 32c
Canvas Nails.....75&5%
Clout Nails .....75&5%
Hungarian Nails.....80&5%

TAPES, MEASURING.
Asses' Skin.....40&10%
Bend Leather.....20%
Patent Leather.....20%
Lufkin's Steel.....25%
Lufkin's Metallic.....30%

TEE BEVELS—See Bevels.

THERMOMETERS.
Tin Case.....per doz. 80c@$1 25
Wood Back..... " $3.00@12 00
Glass..... " 12 00

TIES.
Bale.
Single Loop.....80&10%
All other kinds.....70%
Cow—See "Chains."

TOOLS, SAW.
Atkins' Dexter.....per doz. $4 50
Atkins' Excelsior..... " 6 50
Disston's Universal.....40%
Minature.
Smith & Hemenway.....25%

TRAPS.
Fly.
Balloon.....per doz. $1 15
Harper's..... " 1 25
Game.
Newhouse.....40&10%
New Victor.....70&10%
Mole.
Reddick's.....per doz. $6 00
Mouse and Rat.
Wood Choker...per doz. holes $0 10
Tin Choker..... " " 10
Delusion.....per doz. 1 00
Marty Rat..... " 6 00
Marty Rat Imitation.. " 3 50
Marty Mouse..... " 3 00
Marty Mouse Imitation " 2 00

TROWELS.
Brick.
Clover Leaf.....40%
Brade's.....15&5%
Disston's.....30%
Rose's.....25%
Plasterers.
Clover Leaf.....40%
Disston's.....25%
W. & McP.....25%

TRUCKS.
Bag.....each $2 75
Handy..... " 1 85
Warehouse.....50&10%
No..... 1 2 3
Half Ironed.... $3.00 $3.85 $5.50
Full Ironed.... 3.45 4.50 6.45

TUBS, WASH.
Standard.
Nos..... 3 2 1 Ex. large
Per doz....$5.00 $6.00 $7.00 $ 9.50
Dowell.
Per doz.... 5.35 6.35 7.00 9.50
Cedar.
Per doz.... 6.10 7.10 7.90 10 80
Indurated.
Per doz.... 8.55 9.45 10.80 13.50
Galvanized.
No..... 1 2 3
Per doz.....$4.85 $5.75 $6.50

TWINE.
Per lb
3-ply Cotton Wrapping.....25c
4 " " " 25c
4 " " Extra Wrapping.....27c
4 " " " Hvy. Wrapping..25c
4 " " Wrapping on tubes...27c
3 " " " cones...25c
4 " " " " " ...25c
India Hemp, ¼-lb. balls.....17c
" " ½-lb. " 16c
" " ¾-lb. " .....doz. 63c
2-ply " ¼-lb. " 11c
3-ply " ¼-lb. " 10c
Jute Wrapping, ¼-lb. balls.....14c
Jute Wool, 1-lb. balls.....8½c
Seine.
Nos..... 9 12 15+
Soft.....per lb 26½ 26 25
Med..... " 26½ 26 25
Hard ... " 27 26½ 26
Staging, ¼ lb. ball, size 21.....26½c
" " " " 24.....26c
" " " " 27.....26c
Bagging " " 23c
3-ply "B" in hanks.....18c
4 " "B" " 18c
3 " "A" " 27c
3 " Silver Finish, in hanks....37c
Fodder or Lath.
150-strand 6½c
200 strand. 7½c

VISES.
Phoenix.....35%
Cheney's 20%
Parker's Oval Slide.....50, 10&2½%
Sargent's Oval Slide,
In. 2½ 3 3½ 4½
Ea. $1 00 $1 25 $1 65 $2 00
Parker's Parallel.....18&20%
Parker's Victor.....15%
Parker's Combination.....75%
Solid Box.....50%
Adam's Mechanics'.....each 2 50
Williamson Universal 60%

WARE.
Stove Hollow Ware.
Plain or Unground 60%
Ground Ware.....50&10%
Enameled Ware.....50%
Country Hollow Ware, per 100 lbs $2.75
White Enameled Ware.
Maslin Kettles.....60&10&10&5%
Covered Ware, Tinned and Turn'd. 40%
Enameled 50%
Glue Pots, Tinned.....30%
Enameled.....35%
Enameled.
Cherry Blossom and Chrysolite.50%

WASH BOARDS—See Boards.

WASHERS.
Standard O. G. cast iron...per lb. 2½c
Wrought iron in bulk per lb.:
In. ½ ⅝ ¾ ⅞ 1 ¼ ½ ¾
9c 6½c 5c 4½c 4½c 4½c 3½c
Wrought steel in 5 lb. boxes, per lb.
In. ½ ⅝ ¾ ⅞ 1 ¼ ½ ¾
10c 7c 6c 5½c 5c 5c 4½c

WASHING MACHINES—See Machines.

WEDGES.
Ax.....per doz....30
Galling .....per lb 10¼
Saw ..... " 8¼

WEANERS.
Calf.
Fuller's, per doz.....$2 00 to $2 50
Tyler's Safety, per doz 1 85 to 2 40
Carroll's, per doz..... 3 00 to 3 75
Standard, per doz..... 3 00
Hoosier, per doz..... 3 50 to 4 60

WEIGHTS.
Hitching .....per lb 2½c
Sash—F.O.B. Chicago...pr ton $24 50

WHEEL BARROWS.
Common Railroad....per doz..$15 50
Heavy " .... " .. 20 00
Panama Steel Tray " .. 35 00
Klondike " " .. 23 50
No. C4 Tubular " 43 Bryan..each 4 60
No. C5 " " 45 " " 5 25

WHEELS.
Corundum .....70&10&5%
Emery .....75&5%
Well In. 8 10 12 14
Per doz.....$2.10 $2.50 $3.15 $5.00

WIRE.
Barbed Painted. Galv'd.
Carloads..per 100 lbs..$2.35 $2.65
Less than car " .. 2.40 2.70
Brass.
In coils.....20%
In 1 lb spools, new list.....50&10%
Broom—Tinned. .....60&10&10&10%
Cable—Same price as Barbed Wire.
Copper.
In coils.....20&10%33⅓%
In 1 lb spools, new list .... 50&10%
Fence—Smooth.
Nos. 6 to 9, An'eal'd, pr 100 lbs. $2.15
Nos. 6 to 9, Galvl'd... " 2.45
Hair—New list.....50&10%
Market.
Bright, full bdles.....70&5%
Bright, broken bdles 70%
Coppered, full bdles..... 70%
Coppered, broken bdles.....65&10%
Tinned, full bdles.....70&5%
Tinned, broken bdles.....65&10%
Picture—In coils.....80%@80&10%
In 5 lb. spools. .....per lb..26c
Plain—Small lots..... $2.10
Car lots 2.05
Small spools 5c per hundred higher.

WRENCHES.
Acme Standard.....60%
Alligator No. 1.....85c net
Always Ready.....50&10%
Bemis & Call No. 2 Improved Pipe Wrenches 80%
Coe's Standard.....40&10&5%
Agricultural.....75&10%
Ellis Adjustable.....25%
Malleable "S".....per lb. 06c
Malleable..... " 06c
Stillson Pipe.....70%
Trimo " .....65&10%

WRINGERS.
No. 22, Guarantee....per doz.$32 50
No. 110, Guarantee.... " 32 50
No. 110, Brighton..... " 23 50
No. 110, Bicycle ..... " 31 50
No. 500, Royal ..... " 32 50
No. 350, Universal.... " 28 00
No. 300, Novelty..... " 28 00
No. 310, Keystone ... " 28 00
No. 100, Rival..... " 23 50
No. 330, Relief..... " 28 00
No. 200, Superior. .. " 25 00
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Standard Register Co. 16
Stanley Rule & Level Co. 64
Stanton Heater Co. 15
Star Enameling & Stamping Co. 1
Star Expansion Bolt Co. 76
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CLASSIFIED LIST.

Acetylene Generators

Ideal Epworth Acetylene Co., Johnstown, Pa.

Ash Sifters

Hill Dryer Co., Worcester, Mass

Ammunition

Peters Cartridge Co., Cincinnati, O
Stevens, J Arms & Tool Co., Chicopee, Mass

Bolts

Columbus Bolt Wks., Columbus, O
Star Expansion Bolt Co., New York, N.Y

Boxes—Hardware

Green, A. H., New York
Heller & Co., Montpelier, O

Brass and Copper

Hungerford, U. T., Brass & Copper Co. New York, N. Y.
Plume & Atwood Mfg. Co., Chicago

Bread Mixers

Pritchard-Strong Co., Rochester, N. Y

Cans

Roseland Can & Specialty Co., Rockford, Ill
Stuber & Kuck, Peoria Ill

Carpenter Benches

Grand Rapids Hand Screw Co., Grand Rapids, Mich

Carpenters' Tools

Davis & Cook, Watertown, N. Y
Duby & Shinn Mfg. Co., Branchport Station, Long Branch, N.J
Griffin Mfg. Co., Erie, Pa
Stanley Rule & Level Co., N. Britain, Ct
Wiebush & Hilger, New York City

Cartridges

Peters Cartridge Co., Cincinnati, O

Ceilings—Metal

Berger Mfg. Co., Canton, O
Burton, W. J. Co., Detroit, Mich
Canton Art Metal Co., Canton, O
Edwards Mfg. Co., Cincinnati, Ohio
Eller Mfg. Co., Canton, O
Friedley & Voshardt, Chicago, Ill
Kanneberg Roofing & Ceiling Co., New York
Keighley Met. Ceiling Co. Pittsburg, Pa
Wheeling Corrugat'g Co., Wheeling, W.Va

Chains

Bridgeport Chain Co., Bridgeport, Ct

Chains—Jack and Safety

Hungerford, U. T. Brass & Copper Co., New York

Clippers

Hotchkiss, Edward S., Bridgeport, Ct

Clips—Carriage Trimmer's

U. S. Clothes Pin Co., Montpelier, Vt

Clothes Dryers

Hill Dryer Co., Worcester, Mass
Mannen & Esterly, Cleveland, O

Clothes Pins

U. S. Clothes Pin Co., Montpelier, Vt

Coal Hods

Victor Stamping Co., Cleveland, O

Coil Springs

Pullman Mfg. Co., Rochester, N.Y

Combination Boilers

Smith, Chas. Co., Chicago
Stoltz, F. D., Chicago, Ill

Commode Pails

Pierce & Laux, Burlington, Iowa

Conductor Hangers

Berger Bros. Co., Philadelphia, Pa

Conductor Pipe

American Rolling Mill Co., Middletown, O
Berger Mfg. Co., Canton, O
Clark, Quien & Morse, Peoria, Ill
Eller Mfg. Co., Canton, O
Friedley & Voshardt, Chicago, Ill
Garry Iron & Steel Co., Cleveland, O
La Crosse Steel Roof. Co., La Crosse, Wis
Reeves Mfg. Co., Canal Dover, O
Schoedinger, F. O., Columbus, Ohio

Copper and Brass

Hungerford, U. T., Brass & Copper Co., New York, N. Y
Plume & Atwood Mfg. Co., Chicago

Corn Cribs

Denning Wire & Fence Co., Cedar Rapids, Ia

Cornices

Berger Mfg. Co., Canton, O
Canton Mfg. Co., Canton, O
Edwards Mfg. Co., Cincinnati, O
Eller Mfg. Co., Canton, O
Schoedinger, F. O., Columbus, O

Cornice Brakes

Bertsch & Co., Cambridge City, Ind
Niagara Machine & Tool Wks., Buffalo, N.Y

Cutlery

Gillette Sales Co., New York, N. Y
Hotchkiss, Edward S., Bridgeport, Ct
Smith & Hemenway, Co., New York
Weiss, L. T. Brooklyn

Cut Offs—Rain Water

Cooney & Geiger, Indianapolis, Ind
La Crosse Steel Roof. Co., La Crosse, Wis

Dampers

Sayre Stamping Co., Sayre, Pa

Eaves Trough

Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Garry Iron & Steel Co., Cleveland, O
La Crosse Steel Roof. Co., La Crosse, Wis
Schoedinger, F. O., Columbus, O
Whitacre Mfg Co., J. E., Rockford, Ill

Elbows—Conductor Pipe

Dieckmann, F., Cincinnati O
Eller Mfg. Co., Canton, O
Reeves Mfg. Co., Canal Dover, O
Wheeling Corrugating Co., Wheeling, W. Va

Elbows—Stove Pipe

Reeves Mfg. Co., Canal Dover, O

Electro Plating Outfits

Hanson & Van Winkle Co., Chicago, Ill

Elevators

Kimball Bros. Co., Council Bluffs, Ia

Enameled Ware

Briscoe Mfg. Co., Detroit
Lisk Mfg. Co., Canandaigua, N. Y
Reed Mfg. Co., Newark, N. Y
Republic Metalware Co., Chicago
Star Enameling and Stamping Co., Pittsburgh, Pa

Enameling and Stamping Plants

Vollkommer & Co., Pittsburg

Engineers & Contractors

Vollkommer & Co., Pittsburg

Eye Shades

Texas Co., The, Chicago, Ill

Firearms

Stevens, J. Arms & Tool Co., Chicopee, Falls, Mass

Fishing Tackle

Enterprise Mfg. Co., Akron, O

Fencing—Wire

Cyclone Fence Co., Waukegan, Ill
Denning Wire & Fence Co., Cedar Rapids, Ia
Pittsburgh Steel Co., Pittsburgh, Pa

Fences—Iron

Stewart Iron Works Co., Cincinnati, O

Files

Carver File Wks., Philadelphia, Pa
Disston Henry & Sons, Philadelphia, Pa

Forming Rolls

Bertsch & Co., Cambridge City, Ind
Niagara Mch. & Tool Wks., Buffalo, N.Y

Foundry Supplies

Obermayer, S. Co., Cincinnati, O
Paxson, J. W. Co., Philadelphia Pa

Furnaces—Hot Air

American Furnace Co., St. Louis, Mo
Barnett, C. M., Decatur, Ill
Beckwith, Estate, P. D. Dowagiac, Mich
Boynton Furn. Co., New York & Chicago
Detroit Heating & Lighting Co., Detroit, Mich
Forest City Fdy. & Mfg. Co., Cleveland, O
Graff Furnace Co., New York
Green Fdy. & Furn. Wks., Des Moines, Ia
Haynes-Langenberg Mfg Co., St. Louis
Henry & Scheible Co., Cleveland, O
Hess, Snyder Co., Massillon, O
Kelsey Heating Co., Syracuse, N. Y
Magee Furnace Co., Boston
Mannen & Esterly Co., Cleveland, O
March-Brownbach Stove Co., Pottstown, Pa
Meyer Furnace Co., Peoria, Ill
Monroe Fdy. & Furn. Co., Monroe, Mich
Mueller, L. J. Furn. Co., Milwaukee, Wis
Richardson & Boynton Co., Chicago
Robinson Furnace Co., Chicago
Schwab, R. J. & Sons Co., Milwaukee, Wis
Smith & Anthony Co., Boston, Mass
Stanton Heater Co., Martin's Ferry, O
Stove & Range Co., (The) of Pittsburgh, Pittsburgh, Pa
Thatcher Furnace Co., New York, N.Y
Youngstown Furn. & Supply Co., Youngstown, O

Furnace Pipe and Fittings

Green Fdy. & Furn. Wks., Des Moines, Ia
Meyer F. & Bro. Co., Peoria, Ill
Michigan Safety Furnace Pipe Co., Detroit, Mich
Mueller, L. J. Furn. Co., Milwaukee, Wis

Furnace Rings

Walworth Run Fdy Co., Cleveland, O

Gas Appliances

Adler, H. Co., Carnegie, Pa
Oakman Mfg. Co., New York

Hand Screws

Grand Rapids Hand Screw Co., Grand Rapids, Mich

Hand Punching Machines

American Lock Nut Co., Oregon, Ill

Handles

Morgan Mfg. Co., Wyaconda, Mo

Hangers—Door

Grafton Mfg. Co., Erie, Pa.
Safety Door Hanger Co., Ashland, O

Hangers—Garment
Pullman Mfg. Co., Rochester, N.Y

Hardware Jobbers
Clark, Quien & Morse, Peoria
Paxton & Gallagher Co., Omaha

Hardware Specialties
Arcade Mfg. Co., Freeport, Ill
Carver File Co., Philadelphia, Pa
Enterprise Mfg Co. of Pa., Philadelphia, Pa
Pritchard-Strong Co., Rochester, N. Y
Pullman Mfg. Co., Rochester, N. Y
Roseland Can & Spec. Co., Rockford, Ill
Taylor & Boggis Fdy. Co., Cleveland, O

Heater Combination
Smith, Chas., Co., Chicago
Stolz, F. D., Chicago, Ill

Heating
Quaker Mfg. Co., Chicago

Hinges
Griffin Mfg. Co., Erie, Pa

Hollow Ware
Avery Stamping Co., Cleveland, O
Sperry, D. R. & Co., Batavia, Ill

Ice Cream Freezers
North Bros. Mfg Co., Philadelphia, Pa
Richmond Cedar Wks., Richmond, Va

Industrial Plants
Vollkommer & Co., Pittsburgh, Pa

Iron Fence
Stewart Iron Works, Cincinnati, O

Kitchen Utensils
Avery Stamping Co., Cleveland, O

Ladders—Shelf
Calander, John, St. Paul, Minn

Levels
Baker-McMillen Co., Akron, O
Davis & Cook, Watertown, N. Y
Stanley Rule & Level Co., New Britain, Ct

Lighting Systems
Ideal Epworth Acetylene Co., Johnstown, Pa.

Lightning Rods
Security Lightning Rod Co., Burlington, Wis
Maher & Son, Preston, Iowa

Locks
Yale & Towne Mfg. Co., New York, N.Y

Mail Boxes
Sling-Williams Co., Indianapolis, Ind
Signal Mail Box Co., Joliet, Ill
Smith Bros. Mfg. Co., Chicago, Ill

Metal Lath
Wheeling Corrugat'g Co., Wheeling, W. Va

Metal—Perforated
Harrington & King Perforating Co., Chicago, Ill

Metal Polish
Hoffman, Geo. W., Indianapolis, Ind

Metal Shingles
Burton, W. J. Co., Detroit, Mich
Edwards Mfg. Co., Cincinnati, O
Cortright Metal Roofing Co., Philadelphia
Nat'l Sheet Metal Roof. Co., Jersey City
Wheeling Corrugating Co., Wheeling, W. Va

Mica
Munsell, Eugene & Co., Chicago

Miters
Whitacre, J. E. Mfg. Co., Rockford, Ill

Mop Wringers
Eagle Cooperage Wks., Circleville, O

Nails and Tacks—Copper
Hungerford, U. T., Brass & Copper Co., New York
Standard Horse Nail Co., New Brighton, Pa

Nickel Plating Plants
Hanson & Van Winkle Co., Chicago

Nuts
American Lock Nut Co., Oregon, Ill
Columbus Bolt Works, Columbus O
Garland Nut & Rivet Co., Pittsburgh, Pa

Paints
Connors, Wm., Paint Mfg. Co., St. Louis
Dixon, Jos. Crucible Co., Jersey City, N. J
Enterprise Paint Mfg. Co., Chicago

Pencils
Dixon, Jos. Crucible Co., Jersey City, N.J

Perforated Metal
Harrington & King Perforating Co., Chicago, Ill

Photograph Clips
U. S. Clothes Pin Co., Montpelier, Vt

Pistols
Stevens, J. Arms & Tool Co., Chicopee Falls, Mass

Planes
Stanley Rule & Level Co., New Britain, Ct

Pumps
Beckman Bros., Des Moines, Ia
Berger Mfg. Co., Canton, O
Hess-Snyder Co., Massillon, O

Punches
American Lock Nut Co., Oregon, Ill
Bertsch & Co., Cambridge City, Ind
Niagara Mch. & Tool Wks., Buffalo, N.Y
Weiss, H. & Co., New York, N.Y

Radiators
Rochester Radiator Co., Rochester N.Y

Rasps
Disston, Henry & Sons., Philadelphia, Pa

Razors
Gillette Sales Co., Times Bldg., New York City
Smith & Hemenway Co., New York

Registers
Auer Register Co., New York
Ferrosteel Co., Cleveland, O
Henry & Scheible Co., Cleveland, O
Independent Register Co., Cleveland, O
Mueller, L. J., Furn. Co., Milwaukee, Wis
Schwab & Sons Co., Milwaukee, Wis
Standard Register Co., Cleveland, O

Rifles
Stevens, J. Arms & Tool Co., Chicopee Falls, Mass

Rivets
Hungerford, U. T., Brass & Copper Co., New York, N. Y

Roofing
H. W. Johns-Manville Co., New York, N.Y
Kanneberg Roofing & Ceiling Co., New York

Roofing—Asphalt
Stowell Mfg. Co., Jersey City, N.J

Roofing—Iron and Steel
Berger Mfg. Co., Canton, O
Burton, W. J. Co., Detroit, Mich
Canton Art Metal Co., Canton, O
Edwards Mfg. Co., Cincinnati, O
Eller Mfg. Co., Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Friedley & Voshardt, Chicago, Ill
Garry Iron & Steel Co., Cleveland, O
La Crosse Steel Roof. Co., La Crosse, Wis
Nat'l Sheet Metal Roof. Co., Jersey City
Niles Corrugating Co., Niles, O
Reeves Mfg. Co., Canal Dover, O
Schoedinger, F. O., Columbus, O

Roofing Cement
Garry Iron & Steel Co., Cleveland, O

Roof Paint
Dixon, Jos. Crucible Co., Jersey City, N.J
Garry Iron & Steel Co., Cleveland, O

Rules
Lufkin Rule Co., Saginaw, Mich
Stanley Rule & Level Co., New Britain, Ct

Sash Balances
Pullman Mfg. Co., Rochester, N.Y

Sash Chain, Ribbon & Wire Cord
Pullman Mfg. Co. Rochester, N.Y

Saws and Saw Sets
Disston, Henry & Sons, Philadelphia, Pa
Goodell-Pratt, Greenfield, Mass

Scales
Beckman Bros., Des Moines, Ia

Screens—Perforated Metal
Harrington & King Perforating Co., Chicago, Ill

Screen Door Checks
Pullman Mfg. Co., Rochester, N. Y

Screens—Radiator
Harrington & King Perforating Co. Chicago, Ill

Screws
Columbus Bolt Works, Columbus, O

Screw Drivers
North Bros. Mfg. Co. Philadelphia, Pa

Scuttle Openers
Bickelhaupt, G., Skylight Works, New York, N. Y

Seamless Tubing—Brass & Coppe
Hungerford, U. T., Brass & Copper Co., New York

Settees—Iron
Stewart Iron Works, Cincinnati, O

Shears
Bertsch & Co., Cambridge City, Ind

Shears—Sheet Metal
Niagara Mch. & Tool Wks., Buffalo, N.Y
Weiss, H. & Co., New York, N.Y

Sheets—Black and Galvanized
Berger Mfg. Co., Canton, O
Parkersburg Iron & Steel Co., Parkersburg, W. Va
Wheeling Corrugat'g Co., Wheeling, W. Va

Sheets—Planished
Ward-Dickey Steel Co., Indiana Harbor, Ind

Sheets—Steel
American Sheet & Tin Plate Co. Pittsburgh, Pa
Parkersburg Iron & Steel Co., Parkersburg, W. Va
Ward-Dickey Steel Co., Chicago, Ill

Shot Guns
Stevens J., Arms & Tool Co., Chicopee Falls, Mass

Shovels
Avery Stamping Co., Cleveland, O

Sifters
Stuber & Kuck, Peoria, Ill

Skylights
Edwards Mfg. Co., Cincinnati, O
Eller Mfg. Co. Canton, O

Skylight Gearing
Bickelhaupt, G., Skylight Works, New York, N. Y
Weiss, H. & Co., New York, N.Y

Slate
Auld & Conger Co., Cleveland, O
Johnson, E. J. & Co., New York, N.Y

Soldering Furnaces
Burgess Soldering Furnace Co., Columbus, O
Clayton & Lambert Mfg. Co., Detroit
Turner Brass Works, Chicago, Ill

Sporting Goods
Enterprise Mfg. Co., Akron, O

Squares, Machinists'
Disston, Henry & Sons, Philadelphia, Pa
Duby & Shinn, Branchport Station, Long Branch, N. J
Stanley Rule & Level Co., New Britain, Ct

Stampings—Sheet Metal
Avery Stamping Co., Cleveland, O

Stoves and Ranges
Beckwith, P. D. Estate, Dowagiac, Mich
Born Steel Range Co., Cleveland, O
Chicago Stove Works, Chicago
Faultless Mfg. Co., St. Charless, Ill
Federal Stove Co., St. Charles, Ill
Foster Stove Co., Ironton, O
Galusha Stove Co., Rochester, N. Y
Germer Stove Co., Erie, Pa
Quality Stove & Range Co., Belleville, Ill
South Erie Iron Works, South Erie, Pa
Stove & Range, The Co. of Pittsburgh Pittsburgh, Pa
Van. John. Range Co., Cincinnati, Ohio

Stove Cement
Dixon, Jos. Crucible Co., Jersey City, N.J

Stove Clay
Bridgeport Crucible Co., Bridgeport, Ct

Stoves—Gas
Adler, H. Co., Carnegie, Pa
Stove & Range, The Co. of Pittsburgh Pittsburgh, Pa

Stove Mats
Stuber & Kuck, Peoria, Ill

Stove Pipes
Edwards Mfg. Co., Cincinnati, O
Hemp & Co., St. Louis, Mo
Reeves Mfg. Co., Canal Dover, O
Wheeling Corrugat'g Co., Wheeling, W. Va

Stove Polish
Nickel Plate Stove Polish Co., Chicago

Stove Patterns
Cope Pattern, Geo. W. Wks., Detroit, Mich
Quincy Pattern Co., Quincy, Ill
Vedder Pattern Works, Troy, N.Y
Weiler Pattern Co., Quincy

Stove Pipe Thimbles
Stuber & Kuck, Peoria, Ill

Stove Repairs
Brauer, A. G., St. Louis, Mo
Brucker, M., Chicago
Manufacturers' Stove Repair Co., Chicago

Stove Trimmings
Troy Nickel Works Troy, N.Y

Stove Trucks
Arcade Mfg. Co., Freeport, Ill

Sugar Kettles
Sperry, D. R. Co., Batavia, Ill

Tapes
Lufkin Rule Co., Saginaw, Mich

Test Tube Holders
U. S. Clothes Pin Co., Montpelier, Vt

Thermometers—Oven
Evans Stamping & Plating Co., Taunton, Mass

Thermostats
Howard Thermo. Co., West Oswego, N. Y

Tin—Perforated
Harrington & King Perforating Co., Chicago, Ill

Tinners' Tools
Lufkin Rule Co., Saginaw, Mich

Tinplate
Canton Art Metal Co., Canton, O
Eller Mfg. Co. Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Garry Iron & Steel Co., Cleveland, O
McClure Co., Philadelphia, Pa
Merchant & Evans Co., Philadelphia, Pa
Schoedinger, F. O., Columbus, O

Tinware Trimmings
Berger Bros. Co., Philadelphia

Tools, Etc.
North Bros. Mfg. Co., Philadelphia, Pa
Wiebush & Hilger, New York City

Tree Guards—Iron
Stewart Iron Works, Cincinnati, O

Trowels
Avery Stamping Co., Cleveland, O
Disston, H. & Sons, Philadelphia, Pa
Griffin Mfg. Co., Erie, Pa

Tubing—Brass and Copper
Hungerford, U. T., Brass & Copper Co., New York

Tubs and Pails
Wheeling Corrugat'g Co., Wheeling, W. Va

Valve Regulators
Howard Thermo. Co., West Oswego, N. Y

Vases—Iron Reservoir
Stewart Iron Works, Cincinnati, O

Ventilators
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Friedley & Voshardt, Chicago, Ill
Globe Ventilator Co., Troy, N.Y
Merchant & Evans Co., Philadelphia, Pa
Powers Bros. Streator, Ill
Pullman Mfg. Co., Rochester, N. Y
Wooden Ventilator Co., East Palestine, O

Wash Boilers
Reed Mfg. Co., Newark, N. J.
Star Enameling & Stamping Co., Pittsburgh, Pa

Washing Machines
Benbow-Brammer Mfg. Co., St. Louis, Mo
Paxton & Gallagher Co., Omaha, Neb
Richmond Cedar Wks., Richmond, Va
Waverly Woodenware Works, St. Joseph, Mo

Water Motors
Divine Water Motor Co., New York

Wire Goods
Cyclone Fence Co., Waukegan, Ill
Denning Wire & Fence Co., Cedar Rapids, Ia
Pittsburgh Steel Co., Pittsburgh, Pa

Wants and Sales

For Yearly subscribers THE AMERICAN ARTISAN will insert under this head advertisements of six lines WITHOUT CHARGE for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they read the advertisement in THE AMERICAN ARTISAN.

BUSINESS CHANCES

PATENTS

HUBERT E. PECK, 623 F. St., N. W., Washington, D. C. Consulting Expert in Patent Causes. U. S. and Foreign Patents. Send for leaflet on "Rejected Patent Application."

For Sale—General stock merchandise, with coal; double store; will sell dwelling also. Good reasons for selling. Address Lock Box 114, Paxton, Neb. 13-3t

For Sale—Leading hardware store, tin shop and plumbing in town of 2,300 population, located in northwestern Ohio; good business proposition; only firm doing plumbing and furnace work; within 16 miles; best of reasons for selling. Address L, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13-3t

For Sale—Nice clean stock of hardware and tin shop, doing a good paying business in city of 7,000 population. Bargain if taken at once; good reason for selling. Address Sam Thomson, Pontiac, Ill. 13-3t

For Sale—Clean stock of hardware invoicing about $4,000 in one of the best cities in Michigan, which will increase 5,000 in population in the next two years; store well located on Main street. Address A. N. P., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13-3t

For Sale—Twenty store trucks; best make; can have them at a low figure. Address Thompson Bros., Muscatine, Iowa. 13-3t

For Sale—The controlling interest in the best hardware stock in one of the largest cities in Iowa; excellent opportunity to work into jobbing business; requires $6,500 cash; good reason for selling. Address A-70, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13-1t*

Wanted—A National cash register that has been in use a short time; must be in good condition; state price. Address W. R. Y., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 12-3t

For Sale—Hardware stock invoicing about $8,600, employing a plumber and tinner; sales, $30,000. Town of 7,000 in central southern Nebraska; fine farming country, sewerage, water, gas and electric lights, two railroads, an exceptionally attractive stock and store. Address A-67, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 12-3t

For Sale—Clean well assorted stock of tin, hardware, stoves, paints and oils, tinners' tools, fixtures, safe, horse, harness and wagon. A bargain if taken at once; $1,500 for entire stock and trade; good chance for a hustler; sickness reason for selling. Address or call, Geo. Sichling, 241 Fourth St., Milwaukee, Wis. 11-4t*

Wanted—Good stock of hardware in live town in vicinity of N. W. Iowa, if parties will take $3,000 town property in exchange. Address Exchange, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 11-3t

Business Chances—Wanted, to buy for spot cash, a small tin shop or shop and store; state size of town and amount of competition in first letter. Address A-63, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 11-3t

For Sale—A nice clean stock of hardware with tin shop in connection, doing a good business in southern Wisconsin county seat, within a rich farming country. Only two hardware stores in the city; stock of $4,200. This will bear your investigation. Address Lock Box 52, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 19ufn

For Sale—Stock of hardware and farm implements in a country town doing a nice business. Tin shop in connection, clean stock and first-class fixtures. Cash deal only considered; reason for selling, poor health of one partner. Address A2, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 22ufn

Wanted—Present address of E. C. Mayham, a contractor or carpenter, formerly from Superior, Wis. Will give one year's subscription for The American Artisan for the first one sending same. Address, Rix, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago.25ufn

TINNERS' TOOLS.

For Sale—Tin shop, tools to do all kinds of work; one 8 foot steel brake. Shop does about $1,000 worth of business each month; will invoice about $500. Good reason for selling out. Address West End Supply Co., Indianapolis, Ind. 12-4t

For Sale—1 No. 130 square shears, 1 17 in. brass mounted groover, 1 double "Moore's" seaming machine, 2 circle shears, 1 hollow mantel, 1 sold mantel, and full set stakes. Address Robt. L. Wilson, Peoria, Ill. 13-3t

For Sale—Good paying tin shop; 76 miles from Chicago on R. I. R. R.; good farming and manufacturing town; cheap rent; good stand for plumbing; must sell on account of ill health. Address Geo. J. Kruse, Marseilles, Ill. 11-3t

Tinners' Tools Wanted—8 ft. cornice brake; give low price and full description of same in first letter. Address The Peck-Hammond Co., Cincinnati, Ohio. 11-3t

For Sale—Cheap or exchange for others, lot of second-hand tinsmith's tools and machines in fair condition. For list and particulars address N. B. Case, Box 169, Havre de Grace, Md. 25ufn

HELP WANTED.

Help Wanted—First-class tinner who thoroughly understands furnace work and ordinary plumbing; also willing to help in hardware store; good steady position to right man; strictly sober and reliable, one who speaks German preferred, but others apply at once. Address Hoffmann Hdw. Co., Scribner, Neb. (mgr. of Majestic Mfg. Co., in Nebraska for several years. Write me boys.) 13-3t

Help Wanted—At once, tinner who can take charge of small shop, steady job; state wages in first letter; married man preferred; chance for wife to keep house; four children in family, oldest 17, youngest 20 months old. Address Andrew Kahn, Jr., Sauk City, Wis. 13-3t

Help Wanted—At once, tinner for inside and outside work. Address Randolph Hdw. Co., Randolph, Wis. 13-3t

Help Wanted—At once, experienced hardware clerk, married man preferred; good wages, steady job; state references and wages expected. Address A-73, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13-3t

Help Wanted—Good tinner at once, one who understands furnace work. Address W. B. Frymire, Bloomfield, Neb. 13-3t

Help Wanted—First-class tinner and furnace man with some experience in plumbing and steam fitting; will give steady employment all the year to good sober man; answering state wages and give references. Address J. H. Ford, Dodgeville, Wis. 13-3t

Help Wanted—First-class tinner and metal worker, no booze fighter. Address H. C. Worcester, Roodhouse, Ill. 13-3t

Help Wanted—At once, good all around tinner; must understand furnace and job work; no plumbing; good wages; steady work for steady man. Address Reiche Bros., Naperville, Ill. 13-3t

Help Wanted—Wanted by F. Rassmann, Beaver Dam, Wis., a good tinner at $2.50 per day and steady work the year around. 13-1t

Help Wanted—Good all around man to clerk in hardware and implement store; state salary, give references; must be sober and industrious; steady job. Address Thos. Rawlings, Wakefield, Neb. 13-3t

Help Wanted—Tinner, one able to do roofing, spouting and furnace work; also general repair work; must be willing to help in hardware store; strictly temperate; wages in accordance to ability. Address Marvin Hdw. Co., Oregon, Wis. 13-3t

Help Wanted—Foreman wanted for cornice shop; must be first-class, up-to-date cornice maker, strictly sober. Address Wm. Brown, S. 170 Post St., Spokane, Wash. 13-3t

Help Wanted—First-class tinner and plumber, steady job; $15.00 per week; good place to live in; rent cheap. Address A-69, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13-3t

Help Wanted—At once, tinner who can do general work in country tin shop; good place and good wages. Address James Kerr, Lake Villa, Ill. 13-3t

Help Wanted—Tinner for shop; also some stove and pump work. Best wages, steady position to sober industrious man. Address Kaffer Bros., Minooka, Ill. 12-3t

Help Wanted—At once, tinner who understands plumbing, steam and hot water heating. Address Lock Box 405, Mineral Point, Wis. 12-3t

Help Wanted—Tinner, good all around man; steady work all year; married man preferred; state age and wages. Address A-65, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 12-3t

Help Wanted—Strong young man, either to finish or to start the tinners' and plumbers' trade. Address A-64, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 12-3t

Help Wanted—Good all around tinner and furnace man at once. Address Grebe Hdw. & Harness Mfg. Co., Barrington, Ill. 12-3t

Help Wanted—Good all around tinner, plumber and furnace man to take charge of shop in good live town, steady job the year around for good man, $15.00 per week. Address W. H. McKibben & Son, Arcola, Ill. 12-3t

Help Wanted—Tinner to work in shop; also some stove work and plumbing; one other tinner and plumber employed; state wages. Address C. J. Johnson, Dell Rapids, So. Dak. 11-3t

Help Wanted—Good sober practical mechanic to work in large reaper works; chance to make money on the side doing job work; new shop; some tools; will furnish steady employment and good wages to a good mechanic. Address T. Channey, Nelson & Middle Sts., Springfield, Ohio. 11-3t

Help Wanted—Three first-class furnace salesmen, two for west of Mississippi river; best of salaries paid to men who can snow. Address Richardson & Boynton Co., 20 Lake St., Chicago, Ill. 11-1t

Help Wanted—Tinners' helper for shop and store; steady. Address Boyd Bros., Glen Ellyn, Ill. 11-3t

Help Wanted—At once, tinner who understands ordinary plumbing, steam and hot water heating and clerk in store part of time. Steady job for the right man; $15.00 per week. Address W. F. Rehbein, Gray's Lake, Ill. 11-3t

Help Wanted—Good tinner at once, one that understands furnace work. Address L. F. Schroeder, Barrington, Ill. 11-3t

Help Wanted—Cornice makers; good wages and steady work to experienced men. Address J. M. R., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. ufn

Help Wanted—Power brake operator; good wages and steady work to experienced man. Address, stating experience and wages expected. J. M. R., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. ufn

SITUATIONS WANTED.

Situation Wanted—First-class tinner for general job and furnace work, position at once; married; speak German; state wages and particulars in first letter. Address A-74, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13-3t

Situation Wanted—Position as hardware clerk, three years' experience in city of 50,000; understand bookkeeping and typewriting; can furnish A1 references. Address U. S., care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13-3t

Situation Wanted—By tinner who understands pipe fitting and furnace work of all kinds; want steady job the year around; state wages; married man. Address A-72, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13-3t

Situation Wanted—At once, by tinner, plumber, steam, hot water and hot air furnace heating man; German American; age 34; married; 17 years' experience; A1 references. Address A-75, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13-3t

SITUATIONS WANTED.

Situation Wanted—By an active tinner and furnace man; can do steam, hot water and combination heating work; considered an expert on heating; also good hardware salesman; 16 years' experience; no booze fighter or cigarette fiend; steady worker; only good job at good pay considered; state full particulars in first letter. Address A-71, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13-3t

Situation Wanted—By young man with three years' experience, position as second tinner or helper in good shop; references. Address A-66, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 12-3t

Situation Wanted—By Oct. 15 or Nov. 1, by tinner of six years' experience, capable of taking charge of country tin shop, understand furnace work, roofing, spouting, pump and some plumbing; work in town of 30,000 population now. Age 23; no bad habits; German; want good wages and willing to work; A1 references. Address A-68, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 12-3t

Situation Wanted—Position as clerk and bookkeeper by a sober and industrious man with hardware experience; have worked at tin trade some. Age 29. References furnisheu; state wages. Address W. H., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 11-3t

Situation Wanted—By a first-class tinner and furnace man who can do good job of plumbing and steam fitting. Address Tinner, 523 Ninth Ave., Antigo, Wis. 11-3t

SPECIAL NOTICES.

WANTED

Tinners, sheetmetal, cornice and skylight workers; open shop; good wages, minimum 35c per hour. Apply Metal Workers' Association, Builders' Exchange, Buffalo, N. Y. 26-u.f.n.

WANTED

Side Line: Salesman calling on heating trade regularly, to sell registers—commission basis. State territory covered, and how often; can make confidential or secret arrangements with good men. Address, SALES MANAGER, 2488 W. 27th St., Cleveland, Ohio 25-u. f. n.

WANTED

Good all around man with some knowledge of tinning and plumbing and general repair work. Good salary to a hustler. Married man preferred.

NORTHWESTERN STOVE COMPANY
312 Hennepin Ave., Minneapolis, Minn. 12-1

SPECIAL NOTICE

Sheet metal workers of all branches and all ages, learn to draft your own patterns and make your brains fatten your purse. Our system by mail surpasses anything before attempted. Address

MECHANICS INSTITUTE,
225 Havemeyer St., Brooklyn, N. Y. 9-4t

FOR SALE

USED MACHINERY—One lot shears 3' to 8' in length, both hand and power. One lot light and heavy sheet iron rolls. Also lever punches and shears. BERTSCH & CO., Cambridge, Ind. 25-u. f. n.

WANTED

A capable young man to assist in the Purchasing Department of a large factory. One preferred who has had some experience in buying and is well acqainted with the Hardware Line. Address "C. M. L.," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 12-2t

WANTED

Tinsmith or furnace man with practical experience wanted for our customers in country towns. Good wages and steady work to the right man. Say if you have had plumbing experience. Write

MERRICK, ANDERSON & CO., Winnipeg, Can.
or THE LENNOX FURNACE CO.,
12-4t Marshalltown, Iowa.

TO EXCHANGE

Have a finely located, improved farm in Iowa and one in Illinois to exchange for stock of hardware or implements. Address "B - 13," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 12-4t

WANTED

Two first class furnace salesmen for Iowa and bordering states by an established western manufacturer. Good salaries will be paid to men who can produce results. State experience and give references. Address, "B-14," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 12-2t

WANTED

First-class tinner, familiar with making elbows and furnace pipe; steady job the year round. Address

THE UNITED STATES REGISTER COMPANY,
10-u. f. n. Battle Creek, Mich.

WANTED

Three or four furnace and boiler salesmen. THE BOYNTON FURNACE CO., 147-149 Lake St., Chicago. 12-2t

SPECIAL NOTICE

We have a very good location for retail hardware store in town in northern Illinois. Best hardware store in town has been sold and removed to another place.

WELLS AND NELLEGAR COMPANY
12-2t 72 Lake St., Chicago.

WANTED

Salesman to carry side line, Sheet Metals on commission, Kansas City and Chicago shipment, for well established firm who are tinplate manufacturers and general metal jobbers. Territory Western Missouri, Northern Kansas, Southern Nebraska. First class salesmen with good lines desired. Address "B-15," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 12-2t

MAN WANTED

Somewhere near Chicago to assist us in showing and selling properties. No experience necessary if willing to let us teach you the real estate business. Salary $60 a month to honest man, willing to devote part of his time to this business.

CO-OPERATIVE LAND CO.,
12-4t Ambrus Bldg., Minneapolis, Minn.

An advertisement is a platform from which the manufacturer or jobber can address more dealers than could be crowded into the largest hall in the world.

x x

It is a long distance telephone with multiplex connections *ad infinitum* by which he can talk to thousands of dealers.

x x

It is not only the cheapest circular that can be sent through the mails but it carries greater prestige than any other.

x x

It is a signboard placed where thousands of retailers are congregated.

x x

It is a wireless telegram to the trade.

x x

It is the electric button which starts the complex system of modern business, causing the retailer to seek the jobber and the jobber the manufacturer.

x x

It is a match which when touched to a stock clears it out.

x x

DIXON'S

Ticonderoga Flake Graphite reduces friction losses in cylinders, bearings, and at all friction points. Get free sample 18-C.
Joseph Dixon Crucible Co., Jersey City, N.J.

That label on a Bread Mixer means something!

It means that the PRISCO Bread Mixer is sold under a positive Money-Back Guarantee—that if the PRISCO Bread Mixer is defective in any way, or if it doesn't fulfill every claim we make for it, it may be returned and the purchase price will be promptly and cheerfully refunded.

You take no chances when you sell PRISCO Bread Mixers—every PRISCO is **sure** to give complete satisfaction.

The PRISCO mixes better bread in **2½ minutes** than is possible in any other Mixer in 3 minutes, or by hand in half an hour. The PRISCO pail is heavy tin, highly burnished and polished. The PRISCO swivel clamp holds the Mixer securely on the table without boring holes. The PRISCO stirring rod stirs from the bottom.

Shall we send our PRISCO Bread Mixer Proposition,—and show you where you can open up a genuine Gold Mine?

THE PRITCHARD-STRONG COMPANY,

Makers of PRISCO "Money-Back" Metal Ware.

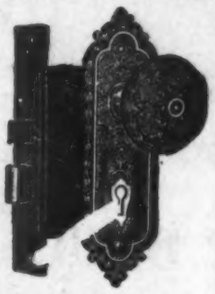
25 CIRCLE ST., ROCHESTER, N. Y. **Chicago Office: Republic Bldg., State and Adams Sts.**

THE TAYLOR & BOGGIS FOUNDRY CO.

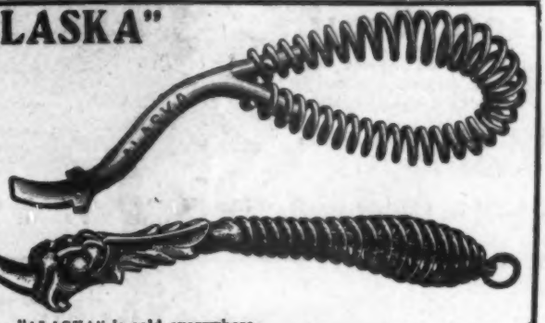
CLEVELAND, OHIO

MANUFACTURERS OF **LIGHT GRAY IRON CASTINGS**

Builders' Hardware, Dampers and Damper Clips, Oil and Gas Stoves, Furnace Lamps, Molasses Gates, Letter Boxes, Hardware Specialties.



Here are a few samples of the "ALASKA"



Stove Trimmings

THE TROY NICKEL WORKS

John E. Gaitley, Prop., ALBANY, N. Y.

ALWAYS COLD—as their name implies. The "ALASKA" is sold everywhere.

NONE BEATS THE

Uncle Sam Damper

It is light, easily adjustable and enduring.

The plate is stamped from best nickled steel and is corrugated to prevent warping. The stem consists of forged steel sharply pointed, notched to engage edge of plate, and is held absolutely in place.

Nothing better on the market.

SEND FOR FREE SAMPLE.

Sayre Stamping Co. Sayre, Pa.

LOW VOLTAGE GENERATORS

For Electroplating.

Rheostats, Voltmeters and Electrical Instruments.

Complete Outfits for Electro-Galvanizing

Bolts, Nuts, Screws, Locks, Staples, Chains and Small Hardware

Complete Nickel-Plating Plants Furnished

Polishing Supplies of All Kinds

THE HANSON & VAN WINKLE CO.

(ESTABLISHED 1820)

219-221 Market Street
Newark, N. J., U. S. A.

Branch:
Chicago, Ill., U. S. A.

DESIRABLE FACTORY OPENINGS.

It will repay all manufacturers dissatisfied with their present locations, to investigate the excellent manufacturing conditions and opportunities in the Central West and Southwest along the

Rock Island FRISCO

Factories to turn out builder's hardware of all kinds, and in fact almost every article in daily use, would find the raw material, fuel and labor conditions very favorable. **Write for particulars.**

Illustrated booklet "Opportunities" and other Rock Island-Frisco literature on application.

M. SCHULTER,
Industrial Commissioner,
Frisco Building. ST. LOUIS, MO.

"BRAUER"

if you are looking for the best place to buy stove dealers' supplies, castings and repairs—promptest shipments, etc. Address,

316-318 North Third St. St. Louis, Mo.

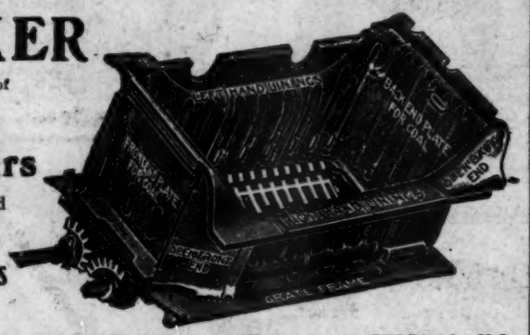
M. BRUCKER

Manufacturer and Jobber of

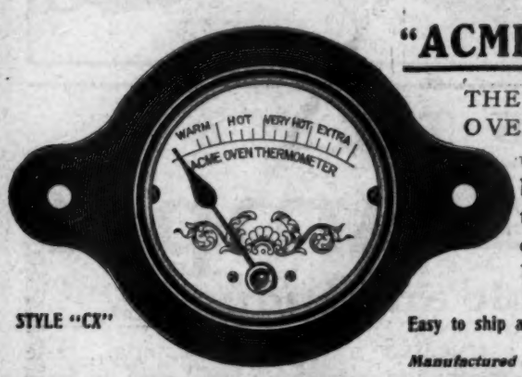
Stove and Range Repairs

Repairs for all Stoves and Ranges. Adjustable Stove Repairs a Specialty.

MICA, URNS, KNOBS, RODS AND STOVE BOLTS



325-331 N. Lincoln Street, BRANCH: 229 North Wells Street PHONE 559 North **CHICAGO, ILL.**



STYLE "CX"

"ACME" OVEN THERMOMETER

THE MOST RELIABLE OVEN THERMOMETER on the Market, as has been proved by some of the largest manufacturers of Stoves in the United States.

Easy to ship and nothing to get out of order.

Manufactured by

THE EVANS STAMPING & PLATING CO., TAUNTON, MASS.

Western Agent: C. H. MATTHEWS, Detroit, Mich.

STOVE-PLATE FACINGS

FIRE PROOF—Uniform Texture, all of it will go through the bag.

RETURN—When used with above will give better results than charcoal.

J. W. PAXSON CO., - Philadelphia, Pa.

Trade HADDON Mark

S. V. REEVES

No. 50 N. 2nd St., Philadelphia

Manufacturer

TRADE V MARK

The LEIBRANDT & McDOWELL STOVE CO.'S STOVES and REPAIRS

PATTERNS

For Stoves and Heaters

First-class in wood and Iron.

Vedder Pattern Works, Troy, N.Y.

Established 1835

The GEO. W. COPE Stove Pattern Works Cor. Brush & Woodbridge Streets DETROIT, MICHIGAN.

WELLER PATTERN Co

DESIGNS and ESTIMATES FURNISHED FOR ALL KINDS OF STOVE PATTERNS

QUINCY, ILL.

STOVE Repairs

Manufacturers' Stove Repair Co.

517-539 Diversey Boul.

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Prompt Shipments Give us a Trial

THE MORGAN MFG. CO.

MANUFACTURERS OF

AXE, PICK, SLEDGE HAMMER AND HATCHET HANDLES, ETC.

WYACONDA, - MO.

Southnek & McElrath,

Moville, Iowa, write:

"Please take out our Want Advertisement. We have too many letters to answer."

MICA

ASSORTED PACKAGES Put Up Expressly for the Retail Trade

ONE POUND—4 SIZES

¼ lb. each size

North Carolina,	$3.40	4 x 6	2¾ x 3¼
Wyoming,	2.90	2½ x 3	2 x 5

TWO POUND—8 SIZES

¼ lb. each size

North Carolina,	$6.55	2 x 3	2¾ x 3½
		2 x 4	2½ x 3
Wyoming,	5.60	3 x 3	2½ x 5
		3 x 4	4 x 6

THREE POUND—12 SIZES

¼ lb. each size

North Carolina,	$9.40	4 x 5	2¾ x 3¾
		2½ x 4½	2 x 4
Wyoming,	8.05	3 x 3	2¾ x 2¾
		2½ x 3	5 x 6
		2 x 3	2½ x 5
		2 x 4½	2¼ x 3¼

Above Prices Net **No Discount**

Delivered to Any Part of the United States Free of Transportation Charges

EUGENE MUNSELL & CO.

218 Water Street, New York 358 Dearborn Street, Chicago

SIX STANDARD PRODUCTS

USED BY ALL THE LEADING STOVE AND RANGE MANUFACTURERS:

W. Dewees Wood Company's Patent Planished Iron.
Wood's Cleaned Refined Smooth Finish.
Hammered Polished Steel.
Wood's Oak Stove Body.
Wellsville Polished
Range Steel.

MANUFACTURED BY

AMERICAN SHEET & TIN PLATE COMPANY

FRICK BUILDING PITTSBURGH, PA.

Champion Stove Clay

The only Stove Lining made of crucible materials.

Packed in 2½ lb., 6 lb. and 10 lb. pasteboard boxes.

Order it from your jobber.

The best and most refractory lining made.

Bridgeport Crucible Co., Bridgeport, Conn.

Time—The Truest Test of Merit

EVERYTHING YOU NEED IN YOUR FOUNDRY

To have been first proves antiquity, to have remained first proves merit. We have led in foundry supplies for 32 years. Anything a stove foundryman might wish for.

TELL US YOUR NEEDS.

S. Obermayer Company

Cincinnati Chicago Pittsburg

At Every Point

you'll find that the

"OAKMAN" Self-Lighting Burner

is superior to any other Burner on the market. One of its strongest points is—that it will pay for itself—by minimizing the use of gas and by the saving in mantles—in a few months.

It's a mighty good article to handle — if you want a QUICK SELLER on terms that will leave a fair margin of profit FOR YOU.

The "OAKMAN" will back your most glowing praise and those who buy it, will—well, they're your customers!

Catalog "A" tells more about this truly wonderful burner—

DO YOU WANT IT?

OAKMAN MFG. CO.

84-86 Chambers Street, New York

176-180

The Victor Sells on Its Merits

Years of experience in handling it has proved that the "VICTOR" coal hod is "IT."

Victor hods always have been the best made and they are better now than ever. Strong construction and reinforced bottom is the basis of our guarantee—**THE BEST.**

VICTOR STAMPING CO.

BROADWAY, LOVELAND, OHIO

If you insist on having

PARKERSBURG BLUE

you will get the best blued sheet on the market.

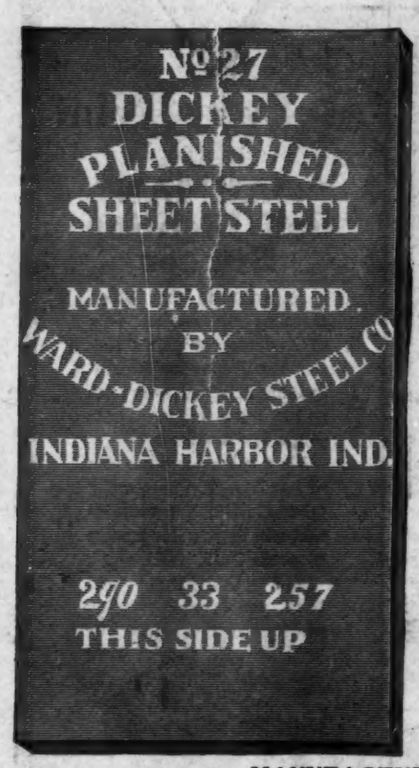
ACME POLISHED

Is of superior excellence for high-class stove and range work.

Send for Samples and Prices.

THE PARKERSBURG IRON AND STEEL COMPANY

PARKERSBURG, WEST VIRGINIA



HAMMER Planished

Looks:—Highly polished.

Works:—Soft, Tough, Flexible; never breaks.

Wears:—Holds its color under long and high heats to an unequalled degree.

Gauges No. 18 to 28

Send for Price List

MANUFACTURED BY

Ward-Dickey Steel Co.

INDIANA HARBOR, IND.

Locations for Industries

ON

THE ERIE, THE COMMERCIAL RAILROAD

Chicago to New York

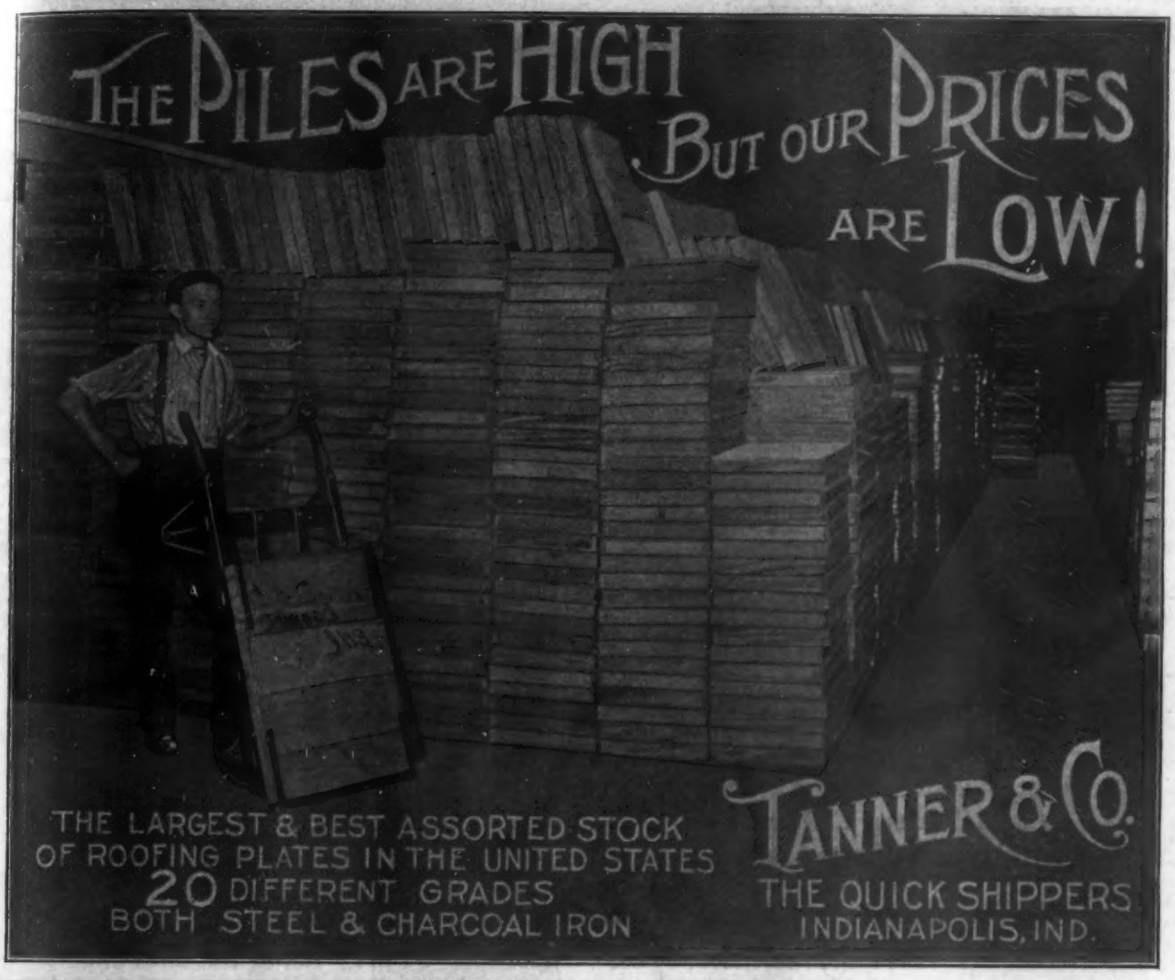
The Erie Railroad System's Industrial Department has all the territory traversed by the railroad districted in relation to resources, markets and advantages for manufacturing, can advise with manufacturers of specific products as to suitable locations, and furnish them with current information of a comprehensive nature dealing with the project in its full relation to manufacture and commerce.

The Erie is one of the greatest of trunk lines. Its own rails connect the two largest cities of America. Every section of the System has its particular merits. Profitable locations exist. It has great general and coal, oil and natural gas resources.

It is important in this age of modern facilities for manufacturers to locate where they can obtain side tracks so as to receive from and ship directly into cars at the factory. Information can be promptly furnished in this connection about every point on the system between New York and Chicago.

Manufacturers' inquiries as to locations are treated in strict confidence, and absolutely reliable information, so as to promote permanent traffic, is furnished. Address

LUIS JACKSON
Industrial Commissioner
Erie Railroad Company.
11 Broadway, New York.



Gothic Design—One of the great variety of our

Art Metal Ceilings

We manufacture and always have on hand a large stock of

All Kinds of Sheet Metal Goods

for building purposes, in artistic designs and of first-class material. We furnish

ESTIMATES AND PLANS FREE OF CHARGE

Write for catalogs and price list.

Kanneberg Roofing & Ceiling Co.
CANTON, OHIO, U. S. A.

Perfection in Metal Ceilings

THE GOODS MANUFACTURED BY

FRIEDLEY-VOSHARDT CO.

ARE IN A CLASS BY THEMSELVES
WRITE TO-DAY FOR CATALOGUE AND PRICES

194-204 Mather Street, :: CHICAGO, ILL.

Conductor Pipe

Buy It Right
Don't Experiment

Largest Manufacturer of Conduits and Eaves Trough in the Middle West.

F. O. SCHOEDINGER, Columbus, O.

Dept. 2 The Big Manufacturer 146 N. Third Street 148

Roofing

Cornice

IT IS NOT

the first cost of a metal ceiling that makes it cheap.

The cost of a ceiling is not complete until the work is accepted by the architect or owner. If the plates do not fit, your expense may be enormous. Better be on the safe side and get "Canton" Metal Ceilings.

We have a reputation for good work.

Our book "Art in Metal Ceilings" free.

The Canton Art Metal Co.,
FORMERLY
The Canton Steel Roofing Co.
CANTON, OHIO
Minneapolis Branch: No. 253 Second Ave., S.
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Ceilings

Eaves Trough

Down and Out!

The natural fate of any dealer who tries to get along without the

"Garry Grade"

of Corrugated Iron and Steel

Eaves Trough

We are specialists in manufacturing Conductor Pipe and Gutters, Tin and Terne Plates.

THE SMILING SUN
cannot crack our

Roofing Paint

GARRY IRON & STEEL CO., Cleveland, O.

Economy in Steel Ceilings

Did it ever occur to you when buying a steel ceiling that there are other points than the first cost of material to be considered?

The cost of erecting is one of the most important points.

Do you realize that **Lock-Joint Steel Ceiling** will save you fully fifty per cent (50%) of the cost of erecting? This is an amount worth considering.

An ordinary 2 ft. x 2 ft. Lap-Joint ceiling plate requires at least 30 nails.

Lock-Joint needs but 4 nails to each plate—quite a difference.

With the ordinary Lap-Joint a cross strip is necessary at each end of each plate.

Lock-Joint requires no cross strips.

And another advantage — **Lock-Joint is dust-proof**

Catalogue "D" is waiting for you to write.

S. Keighley Metal Ceiling & Manufacturing Co.
PITTSBURGH, PA.

Boston New York
Washington Baltimore

CRESCENT STEEL LATH

Saves Money by Reducing Insurance Rates.

CRESCENT STEEL LATH

Manufactured by

Wheeling Corrugating Co.

WHEELING, W. VA.

CRESCENT STEEL LATH

Is made of Steel Sheets beaded every 1¾ inches to give stiffness to the sheet. The openings in the sheet are ample to allow an easy passage to the plaster under pressure, and are guarded by an arch of metal, which prevents the plaster from going through too freely. This lath is coated on both sides with our special anti-rust coating.

To our way of thinking WE MAKE THE BEST.

Our prices are right. We ship quick.

No order too large for us.

BRANCH OFFICES AND WAREHOUSES:

New York City	47-51 Cliff Street
Chicago	23-25-27 N. Clinton Street
St. Louis	112, 114, 116 South Eighth Street
Philadelphia	402, 404, 406 Race Street
Boston, Mass.	152 and 134 Pearl Street
Chattanooga, Tenn.	King Street

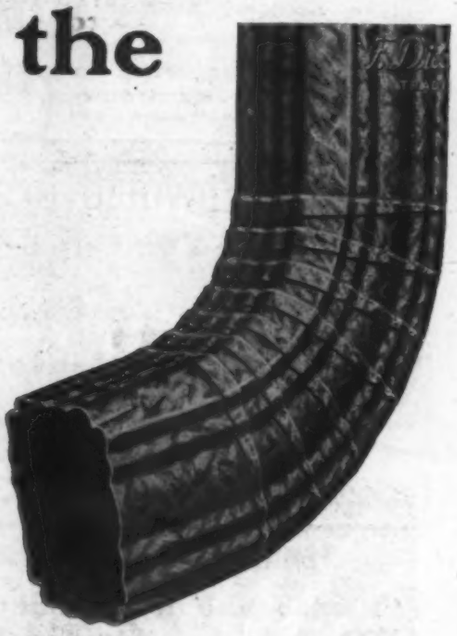
Large Stocks of all our Products are Carried at the Factory and in all the Warehouses.

This Is One of the

F. Dieckmann

Flat Crimp Conductor Elbows

(PATENTED)



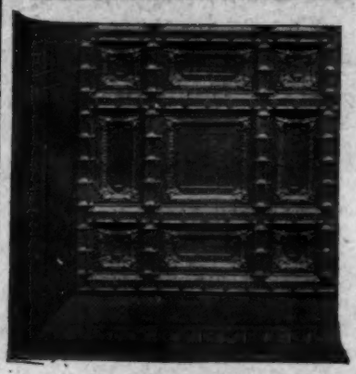
HEAVIEST GAUGE ELBOW ON MARKET

Watch for another one next week. The "Dieckmann" is the only conductor elbow made of one piece of metal. I make 1,225 varieties, in all styles and angles.

FERDINAND DIECKMANN

Station B : : : CINCINNATI, OHIO

THE EDWARDS METAL CEILINGS



Metal Shingles
Metal Windows
Cornice
Skylights
Roof Gutters
Corrugated Iron
and Steel Roofing
Steel Imitation
Brick and Stone Siding

Write for Metal Ceiling Catalog "J," and special proposition to agents.

Everything in Sheet Metal Building Material illustrated and described in our large 132-page Catalog "R," sent free upon request.

THE EDWARDS MANUFACTURING Co.

"The Sheet Metal Folks"
Office and Works: 300-316 Eggleston Ave., Cincinnati, O.
Manufacturers of the most extensive line of Sheet Metal Building Material in the World.

ROOFING SLATE

We operate our own quarries, manufacture and sell all grades of Slate, Roofers' Supplies, Tools, Cement, Nails, Felt. Write for delivered prices.

THE AULD & CONGER CO.
Dept. 5 CLEVELAND, O.

Polygon Conductor Pipes Won't Burst.

The twist in the corrugation checks the sudden fall of ice and water, thus protecting the joints. It stands hard knocks because it is corrugated. Again, it is much handsomer than plain pipe. Made in copper and galvanized iron.

Catalogue and information free.

Address Dept. H,
The American Rolling Mill Co.
Middletown, O.

Monarch Roofings

assure to dealers
Liberal Profits,
Enhanced Reputation,
Extended Business,
Satisfied Patronage,
and to consumer
Quality, Durability,
Economy, Satisfaction.

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The Ideal Epworth Acetylene Generators are **Ideal** in construction, **Ideal** in light producing power, **Ideal** in giving out steady light, **Ideal** in selling qualities, **Ideal** in lighting **Dwellings, Stores, Hotels, Churches** and **Towns. Acetylene Light** is the safest, best, cheapest, brightest, finest light in the world, when produced in the **IDEAL EPWORTH GENERATORS.**

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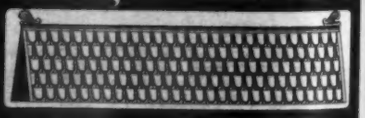

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Every sheet is stamped and every piece of Pipe and Trough has this little brass tag attached to

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OF EVERY DESCRIPTION, FOR ALL PURPOSES AND FOR SCREENS OF ALL KINDS
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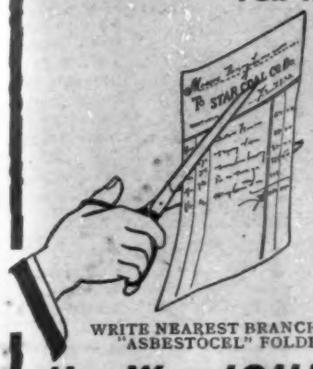

"Asbestocel," a Pipe Covering composed solely of Asbestos, greatly increases the efficiency of a plant and **decreases the fuel consumption fully one-half.**

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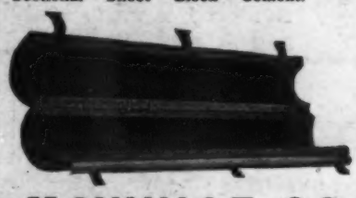

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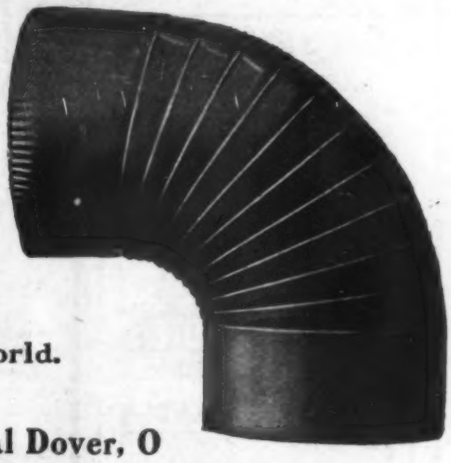
STRONG, HANDSOME, GUARANTEED TO FIT
AN ELBOW THAT SELLS ON ITS MERITS

Common light weight, Common standard weight, Refined, Blue, Polished, Planished,
3 in., 4 in., 4½ in., 5 in., 5½ in., 6 in., 7 in.



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Made of Galvanized Iron in Ten-Foot Lengths without a Cross Seam. Will not burst when full of ice.

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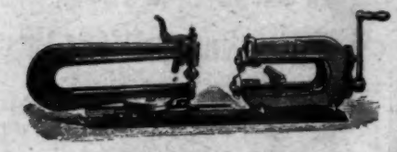

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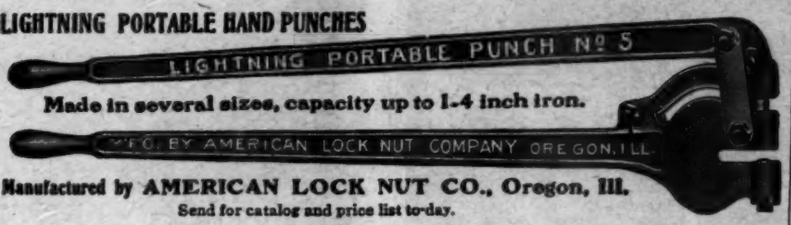

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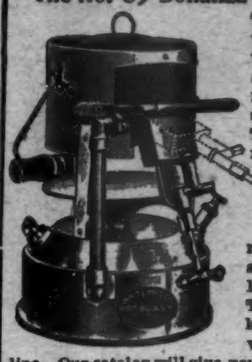

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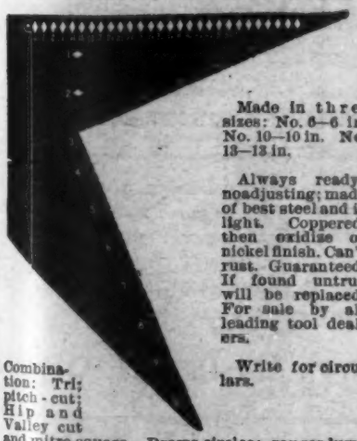
"NEW STYLE"



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Fox's N. P. All Steel Tools
CARRIED BY ALL JOBBERS.
Popular priced but accurate.

No. 3 Try and Miter Square, 10 inches only.

On this line:
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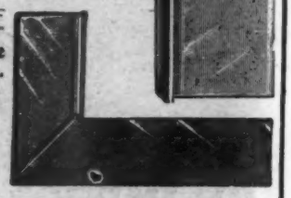

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The different Level—with the bulb seen in all positions. Any mechanic will buy when he examines. Put in stock.
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Will not remain long on your shelves. The last piece will bring as much as the first, because they are all good ones. Not a cull in them. If your jobber does not carry these goods, write us and we will send you circulars and advise who carries our line. —*We Manufacture*—
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A beautiful Level, polished and strictly first class. Packed one in a box, and six in a case.
Any dealer can handle a case very quickly. Write for discount.
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IMPROVED CARPENTERS' TOOLS
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is the only one having a latest improved closet seat which need not be removed when cleansing. Seat is on outside of body with braces riveted to side of pail. Made of galvanized iron painted and decorated in assorted colors or finished in white enamel. Packed one fourth dozen per crate.

Get a trial order from your jobber and we assure you, that you will buy none other. If you do not find them better than any made to-day, you may return them to us and we will pay your bill.

FOR SALE by the jobbing trade only.

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never rust, smut, split, or blow off the line.

Any special clips made to order.

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Sausages made with the **ENTERPRISE SAUSAGE STUFFER** have no air inside the casing. For this reason they keep better.

The corrugated spout allows the air to escape as the casing is stuffed. Buyers appreciate this, and other good points—like the accurate boring of the cylinder—in the

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that will not scorch or burn even the most delicate dainty sauce or gravy. Will not absorb grease or flavor. Does not get smeary, dirty, unsanitary. Always clean, sweet, hygienic. Never warps.

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EXCLUSIVE MANUFACTURERS.

Porcelain Enamel
For
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DOUBLE-BULGE GOGGLE
Absolutely New, Patent Applied For

This new goggle is just out. Ask your jobber. Don't take any substitute.
THE TEXAS CO., Manufacturers, CHICAGO, ILL.

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Twelve sizes always in stock.

Full measure, guaranteed perfect original patterns, with metal distributed where it is needed. Many Caldrons are made from our casting as patterns. They are inferior to originals, as they have light bottoms and heavy sides and hold less.

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No. 50

The grease passes through it instantly and leaves the food light and tempting. Easily cleaned. Made entirely of steel. A firm, cool grip. Will last a life time. Costs no more than a poor one. Our catalog contains some 400 good things, and can be had for the asking. Risk a postal card on it anyway.

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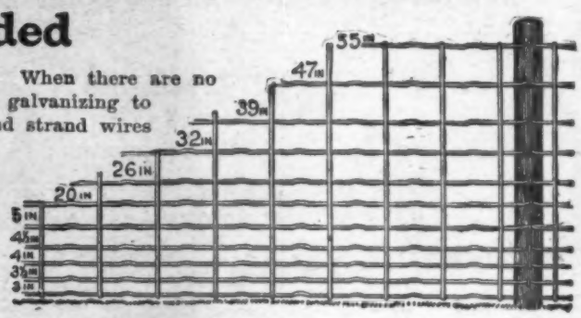
"Pittsburgh Perfect" Fences

Electrically Welded

When the joints are electrically welded there are no wraps. When there are no wraps there is no chance for moisture to accumulate, for the galvanizing to crack, for the wire to be rusted. Stays cannot slip; stay and strand wires become one piece when the union is made. These fences



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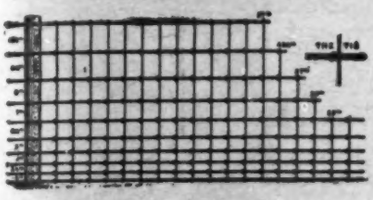
Pittsburgh Steel Co., Pittsburgh, Pa.

The Fence That Suits



Your Customer

is the one for you to handle

Woven Field Fencing

Both Single and Double Strand.

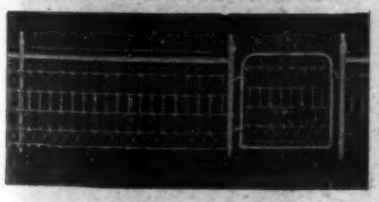
JUMBO POULTRY turns everything.
Lighter Poultry for less money of Various Weights.

Lawn and Cemetery Fence, Barb Wire, etc.

SEND FOR CATALOGUE.

THE DENNING WIRE & FENCE CO.

CEDAR RAPIDS, • IOWA



This is a pretty residence fence.

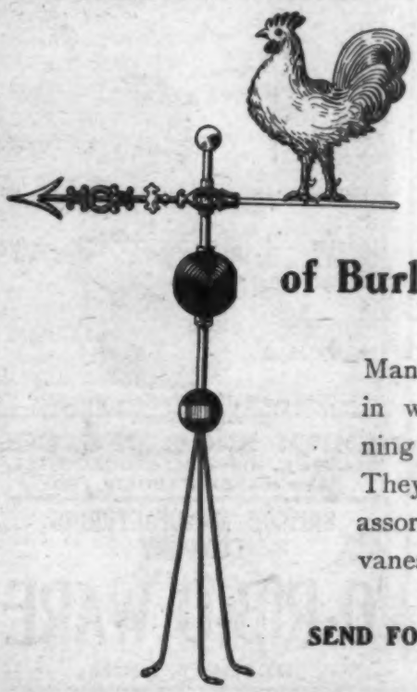
We have others more suitable for cemeteries.

We can supply your fence wants.

We manufacture field fence, also wire gates.

CYCLONE FENCE COMPANY
WAUKEGAN, ILL.

CLEVELAND, OHIO HOLLY, MICH.



The Security Lightning Rod Company

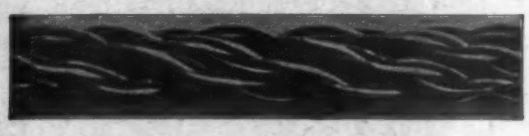
of Burlington, Wisconsin

Manufactures everything in weather vanes, lightning rods and fixtures. They have also a large assortment of balls and vanes of all kinds.

SEND FOR THEIR 1906 CATALOG

THE SECURITY LIGHTNING ROD CO., BURLINGTON, WIS.

LIGHTNING RODS ARE A PROTECTION



when you use our

Pure Copper Cable

If it wasn't why do we give a $500.00 guarantee. We have got the best and heaviest Cable and Fixtures on the market, and our prices are far below any other firm now making an inferior cable. There is money in the business for you.

We want an agency in every county, send for catalog and prices to

MAHER & SON, Preston, Ia. The firm that cut down the price of Lightning Rods.

What is Daus' Tip-Top?

TO PROVE that Daus' "Tip Top" is the best and simplest device for making **100 copies** from pen-written and **50 copies** from typewritten original, we will ship complete duplicator, cap size, **without deposit, on ten (10) days' trial.** Price $7.50 less trade discount of 33⅓% or..... **$5 net**

The Felix C. L. Daus Dup. Co.

Daus Bldg., 111 John St., N.Y. City

STEWART IRON FENCE

AGENTS WANTED

Write for CATALOGUE No. 23 To-day.

THE STEWART IRON WORKS COMPANY
CINCINNATI, OHIO, U.S.A.
"The Worlds Greatest Iron Fence Works"

DAVISON'S MINIATURE TOOLS.

BEAUTIFUL WATCH CHARMS. TRADE EMBLEMS.

Each of these are perfect working models or exact reproductions of the standard tools. It is wonderful how such a small article can be made duplicating a standard tool, for such a small amount of money. No detail is neglected, and each one is guaranteed to be exactly as shown in the cut. Fine nickel plated finish.

LIST PRICE—Pearl handle articles doz - - - - - - - $6.00
" " Ivory, Ebony, Rosewood, Amber, Coral and metal handle articles doz. - - - - 4.00
" " ASSORTMENTS—Same as above.

DISCOUNT TO TRADE

SMITH & HEMENWAY CO.

108-110 Duane St., NEW YORK

MAKE MORE MONEY

Rural Routes are going in all around you. You can get this business with the SIGNAL MAIL BOX

It is the original box for Rural Routes with special endorsements of Postmaster General. The best made, the best liked, the easiest sold and the best advertised.

SIGNAL MAIL BOX CO.
106 Benton St., Joliet, Illinois

Blick No. 3 The Best Box

FOR RURAL FREE DELIVERY

$5.88 Per Dozen

BE JUST WITH CUSTOMERS

Sell them Blick No. 3 boxes. They are big ones, 6½x8½x19 inches. Made of heavy galvanized steel. Painted green, the new Government color. Same shape and color as city boxes. Have Positive-Locking Flag Signal, Automatic Latch, Water-Tight Quality. Every box tested, every box right, every box warranted. They will get the business. You better get them. Order now.

$5.88 per Doz.

BLICK-WILLIAMS CO.
INDIANAPOLIS, IND.

Planet R. F. D. Mail Box

with patented Automatic Flag Signal. Made of 20 gauge galvanized steel. Each box warranted. $5.40 per dozen.

Sanitary Adjustable Strainer Pail

IX Charcoal Tin

12 qt. $4.50

14 qt. 5.00

Jobbers Sell at Factory Prices. Ask Them.

SMITH BROS. MFG. CO.
246-254 E. Kinzie St., CHICAGO, ILL.
Also at INDIANAPOLIS, IND.

BRISCOE MANUFACTURING COMPANY

O-RIB-O WARE

DETROIT, MICH.

No Dust, No Dirt

Pleases everybody

Quick Seller

Order at once to insure prompt delivery.

Send for prices.

HILL DRYER CO.
Worcester, Mass., U. S. A.

YALE

Russia finish, pat. lock

STOVE PIPE.

It is made of a very high grade of uniform color Blue Polished Steel, and is coated to prevent rusting. Made in all sizes.

Packed twenty-five and fifty joints to crate. For sale by the jobbing Hardware Trade throughout the United States.

MFD. BY HEMP & CO.
2nd & Chouteau Ave.
ST. LOUIS.

In the event your jobber does not handle this pipe send your inquiries to us

A business man being asked by an advertising solicitor for an "ad," answered, "I did a great deal of advertising when I started in business and now I am well enough known to get along without it." The solicitor asked him if he knew who had run for the office of Vice-President the election before last. The business man did not. The solicitor then asked him if anyone had been better advertised at the time. This brought the "ad."

U.S. METAL POLISH

Excellent. Economical. No Experiment. A Recognized Success.

G. W. Hoffman, Sole Prop. 285 E. Wash. St. INDIANAPOLIS, IND.

TRADE MARK

INFALLIBLE

FOR POLISHING GOLD, SILVER, PLATED WARE, NICKEL, TIN, BRASS, COPPER, Etc.

DIRECTIONS:
Take a little of the Polish on a soft cloth, rub the Metal hard and then wipe it off with a dry cloth

Steel Hardware Shelf Boxes

Screw Cases, Etc.

Send for Circulars.

Heller Co., MONTPELIER OHIO.

Gillette Safety Razor

NO HONING NO STROPPING

Fine, flexible, wafer steel that shaves 20 to 40 quick and comfortable shaves from each blade.

A MOST WONDERFUL SELLER. PLEASES EVERY PATRON. BRINGS NEW CUSTOMERS.

Nearly 1 Million first 30 months. Men Pay $5 cheerfully.

12 Blades 24 Keen Edges

Triple silver-plated set with 12 blades,	$ 5.00
Quadruple gold-plated set with 12 blades,	10.00
Quadruple gold-plated set with 12 blades and monogram,	12.00
Standard combination set with shaving brush and soap in triple silver-plated holders,	7.50
Other combination sets in silver and gold up to	50.00

Standard packages of 10 blades with 20 sharp edges, for sale by all dealers, at the uniform price of 50 cents.

No Blades Exchanged or Resharpened

We supply our dealers liberally with signs, booklets and hangers. Write for our uniform discounts and facts.

GILLETTE SALES COMPANY
TIMES BLDG., NEW YORK CITY

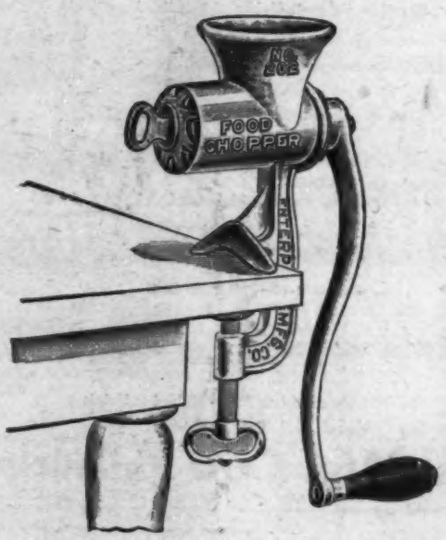
THE SHAVEZY GUARD

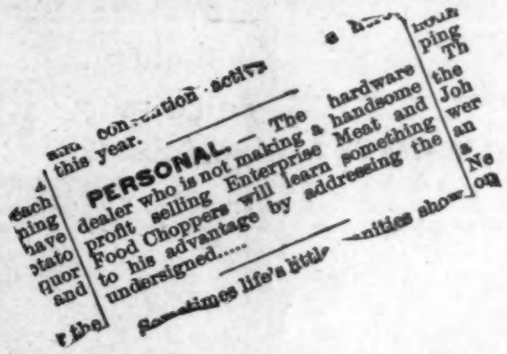
May be adjusted to any blade.
Instantly changed from right to left.
Is the best and a Cheap Guard.

Get my prices, which are right.

L. T. WEISS, Sole Manufacturer
288-290 Taaffe Place, BROOKLYN, N.Y

C. De Witt Wagner, 400 Third Ave., Cedar Rapids, Ia., writes: "Please accept my thanks for your help in securing a tinner for me. I had letters from several states which goes to show that The Artisan is read."





We are breaking all records in sales of Meat and Food Choppers. If you are not selling more

ENTERPRISE
Meat and Food Choppers

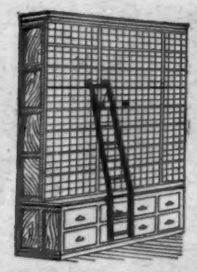
than ever before there is something wrong.

Write us for "ginger" (live advertising matter), to start business bubbling your way. People are afraid now of packing house products. They want to chop their own meats. They are buying Meat Choppers from the dealers who are pushing them. Get in line!

THE ENTERPRISE MFG. CO. OF PA. PHILADELPHIA, U. S. A.
NEW YORK BRANCH, 10 Warren St. SAN FRANCISCO BRANCH, 318 Market St.

Persistence in Advertising

In the expansion of business now bringing profit to so many manufacturers, advertisers who have made themselves regularly prominent in the past five years have been notable in reaping the rewards of persistent publicity.



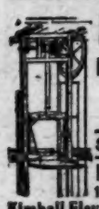
Milbradt's Rolling Shelf Ladders

Are made to fit all kinds of high shelvings, and are guaranteed to be satisfactory in every respect

HIGHEST AWARD
St. Louis World's Fair

Send for Catalog and Prices

JOHN CALANDER
146-148 E. 8th Street
ST. PAUL, MINN.



ELEVATORS

IMPROVED QUICK AND EASY RISING STEAM, ELECTRIC AND HAND POWER

SEND FOR CIRCULARS

KIMBALL BROS. CO.
1061 Ninth St., COUNCIL BLUFFS, IOWA
Kimball Elevator Co., 139 Vincent St., Cleveland, O.

FACTORY LOCATIONS

For all kinds of plants using iron and steel and other metals. The country reached by the

SOUTHERN RAILWAY AND MOBILE & OHIO RAILROAD

is now growing at a rapid rate. This growth is steady, substantial and based upon the great natural resources. Give us your requirements for plant location and we shall be glad to send information. Write the nearest agent.

Small Foundry in good town for sale cheap. Refer to Washington File 24,657, Chicago File 16,209.

M. V. RICHARDS,
Land and Industrial Agent
Washington, D. C.

CHAS. S. CHASE, Agent,
624 Chemical Bldg., St. Louis, Mo.
Agent Land and Industrial Department.

The LENOX HOTEL IN BUFFALO

Modern. Highest Grade. Fireproof.

OUR OWN ELECTRIC CARRIAGES, EXCLUSIVELY FOR PATRONS, operate between the Hotel, Depots, Wharves & Business District every few minutes.

EUROPEAN PLAN

Rates $1.50 per day and upward.

GEORGE DUCHSCHERER, Proprietor.

It's the people who know just what is a perfect white lead that we want to have examine, and try, and pass judgement on

IRONCLAD WHITE LEAD

We know it is exactly right, and they have the opportunity of knowing just what we know about it.

ENTERPRISE PAINT MFG. CO., Van Buren and Peoria Sts., Chicago, Ill.

"Yankee" Tools

ARE THE NEWEST, CLEVEREST AND QUICKEST SELLING,

and are without equal in quality or efficiency in practical use.

No. 10 and 11—Ratchet, Right and Left Hand and Rigid

No. 15—Rachet, With Finger Turn on Blade

No. 30 and 31—Spiral Ratchet, Right and Left Hand and Rigid

No. 40-41-44—Automatic Drill

No. 50—Reciprocating Drill for Wood or Metals

Send for "Yankee" Tool Book

North Bros. Mfg. Co., Philadelphia

Keystone Boiler Handles

No. 1 Regular size for oval boilers.

No. 2 Regular size for square boilers.

No. 3 Extra heavy for oval boilers, can be shaped to fit square end boilers.

The illustration herewith, shows the No. 3. The sides are heavy stamped steel, nicely tinned.

Send for samples.

BERGER BROS. CO., Philadelphia

We want one Hardware Merchant as exclusive Agent in each town in Nebraska, South Dakota, Northern Kansas and Western Iowa.

Paxton & Gallagher Co.
Omaha, Neb.

Think of Washers Think of Waverlys

Write for Agency.

WAVERLY WOODENWARE WORKS
St. Joseph, Mo.

Thompson Bros., Muscatine, Ia.
Writes: "Please stop our ad. for Tinner. The first issue brought results."

The MAJESTIC WASHING MACHINE

Roller bearings. Large fly wheel. Lightest running Washer on the market. People are writing us daily to know where they can buy the Majestic. It is the quickest seller and commands the biggest profit to you of any Washing Machine made. That is why you should sell it. The tub of the **Majestic** is made of selected **Virginia White Cedar,** and will stand the action of water a life time. It is bound with our celebrated **Electric-Welded Wire Hoops,** is steam-tight and easy to operate. Two hundred thousand satisfied customers will testify to all we say.

We are shipping out 2500 Majestics each week. Write us for catalogue and prices.

Richmond Cedar Works
Manufacturers of Wooden Ware
Richmond, Virginia.

Competition Ceases

in the Washing Machine Line when you take up the sale of our

SNOWEWHITE

The latest and finest Washing Machine on the market. This space will not permit an ample description, so write us or your jobber without delay.

IT IS EXCELLENCE ITSELF

BENBOW-BRAMMER MFG. CO.
ST. LOUIS, MO.
The Pioneer Washing Machine Manufacturers

THE

WHITE ROSE

IS WITHOUT A COMPETITOR

It is actually BALL BEARING and has proved the most phenomenal seller ever placed upon the market.

Write Today for EXCLUSIVE AGENCY

WHITE LILY WASHER CO., TOLEDO, OHIO DAVENPORT, IOWA

Eagle Mop Wringers and Ohio Detachable Mop Heads and Handles

Meet every service demanded of them. WHY? Because they are built upon the correct principles. They have been hailed with delight by users, and the universal verdict is, I WANT NO OTHER. Ask your jobber or write us direct. A catalogue for the asking.

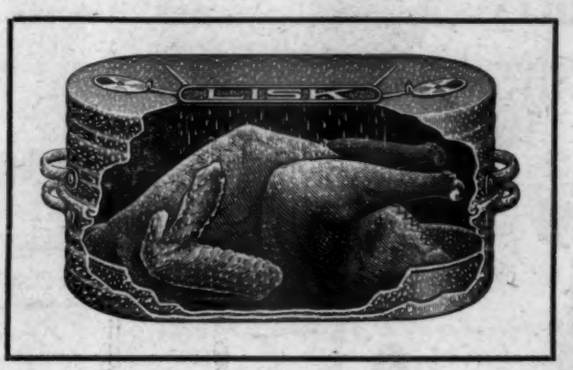
Eagle Cooperage Works, Sole Mfrs., Circleville, O.

The LISK Sanitary

Self-Basting Enamel Roaster

Is the most wonderful cooking utensil and the best and most profitable seller ever placed upon the market.

¶ An extensive advertising campaign, embracing the use of all the best magazines read by over five million people, has awakened a wide public interest in the roaster.



¶ It is a guaranteed money-maker and labor saver.

¶ Seamless, sanitary, self-basting.

¶ It is manufactured in four sizes from Lisk's celebrated Imperial gray enamel steel ware and is unconditionally guaranteed.

¶ If you do not handle it, send for booklet and prices.

THE LISK MFG. CO., Ltd.

Canandaigua, N. Y.

PROFIT PAYING ENAMELED WARES

Niagara Enameled Ware

OUTSIDE Turquoise Blue and White, Rippled
INSIDE The incomparable Niagara White

A Very Beautiful Ware, Carefully Assorted and Packed. Suitable for the Most Select Class of Trade

There is Nothing Better than

AETNA Enameled Ware

For Durability, Toughness of Coating, Fine Appearance and Good Selling Qualities. Double Coated. Very Light Gray Finish.

These two lines of Enameled Ware will put any store in position to satisfy all classes of trade. They show up well in stock and are satisfactory in use.

Our Holiday Premium Sale Advertising Proposition will interest any dealer who wants to sell more Enameled Ware in the next sixty days than he has sold in a year. Write us about it.

The REPUBLIC METALWARE CO.

Successors to SIDNEY SHEPARD & CO.

BUFFALO CHICAGO NEW YORK

OCT 1 1906

TRIUMPH

In Boiler-Making

Quality, Construction and Finish are the distinguishing features of

Reed's Monarch Hand-made Wash-Boiler

Four grades—1X, 2X, 3X, 4X, 5A tissue lined charcoal plate with 14, 16, 18 and 20-oz. full weight copper bottoms, full line tin bottom and metallic bottom boilers, also four grades all copper boilers.

Monarch boilers all wired with 5-16 hard market steel wire drop forged, which makes the boiler strong enough to withstand a pressure of 300 lbs. without deflecting 1-16 of an inch. *See Cut.*

Furnished with Reed's new, seamless pressed cover, with 1-inch rim; cover and rim made of one piece; patent cold stationary handle, riveted on top of cover. Fits like a glove—is strong and durable.

Catalogue and price list mailed free on application. A comparison of prices will warrant your patronage, as we are in a position to furnish the best boiler for the least money made in America.

Reed Manufacturing Co., Newark, N. Y.

Branch Offices: 225 West 12th Street, CHICAGO
55 Atlas Bank Bldg., CINCINNATI

PETERS AMMUNITION VICTORIOUS

To all other makes. At the Second Annual Meeting of the New England Military Rifle Association, Wakefield, Mass., July 23-28, the following matches were won with Peters Factory Loaded Cartridges:

INDIVIDUAL MATCH, 300 YARDS, BY CAPT. STUART W. WISE.
" " " 600 " " " " " "
GLINES MATCH, 800 " " SERGT. H. BAPTIST.

At the Annual Competition of the New York State Rifle Association, Creedmoor, N. Y., July 25-31, these winnings were made with Peters Cartridges or Peters .30 Cal. Bullets:

RAPID FIRE RE-ENTRY REVOLVER MATCH, DISAPPEARING TARGET " " RE-ENTRY PISTOL MATCH, } Won by THOMAS ANDERTON.

COMPANY TEAM MATCH, CRUIKSHANK TROPHY MATCH, OLD GUARD TROPHY MATCH, } Won by the 71st REGIMENT TEAM.

MEMBERS' MATCH WON BY SERG'T W. F. LEUSHNER.

PETERS LOADED SHELLS

Carried off high honors at the Indian Shoot, Parkersburg, W. Va., August 7-9. Mr. L. B. Fleming, of Pittsburg, won high Amateur Average, 568 out of 600, using Peters Ideal Shells.

THE PETERS CARTRIDGE COMPANY

CINCINNATI

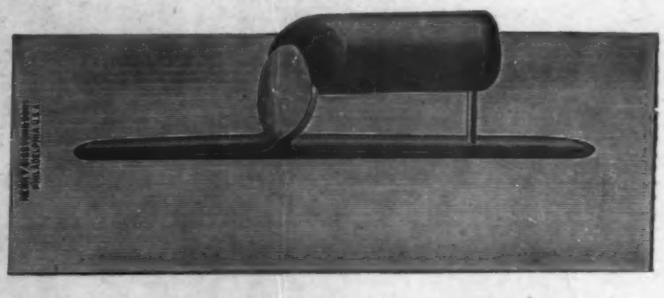
NEW YORK: 98 Chambers St., T. H. KELLER, Mgr. NEW ORLEANS: 321 Magazine St., J. W. OSBORNE, Mgr.

All Disston Products

are famous in this and other continents for quality. The name Disston stands for unequalled skill, honesty of manufacture, unflagging industry. The

Western Plastering Trowel

is made of the highest grade crucible steel. The blade is accurately ground, extra thin. It is fastened with seven rivets to the long mounting, with shield. The end of the handle is beveled for thumb rest. **Easy, comfortable grip, strong and durable. Note reinforcing post at end of handle.**



Quality Tells

HENRY DISSTON & SONS, Inc.

Keystone Saw, Tool, Steel and File Works

PHILADELPHIA : : : : : : PA.

STEVENS

"Little Scout" Rifle, No. 14

Be sure to carry our latest trio in stock—like all STEVENS PRODUCTIONS—the "Little Scout," No 80 Repeater and No. 325 Double Barrel Hammerless Shotgun *are bound to be in wide demand.*

These meritorious, moderate priced models will MOVE READILY, STEADILY and ALL the TIME.

Customers will be invariably satisfied—the goods WILL STAY SOLD!

Ask your jobber for STEVENS ARMS. No Other Make is so Popular.

Send for Circulars of latest Models and 140-page Illustrated Catalog.

J. Stevens Arms & Tool Co.

460 MAIN STREET

CHICOPEE FALLS, MASS., U. S. A.

Good Roofing Tin

Not the imaginary kind of goodness but the real thing that you can see and feel when you examine and work the tin. Samples and prices yours for the asking.

The McClure Co.

Pittsburgh Philadelphia

NOTICE!

We have exceptional facilities for handling American products: Hardware, Sanitary, Heating and Ventilating Goods. Branches in England and Continent. References furnished. Address

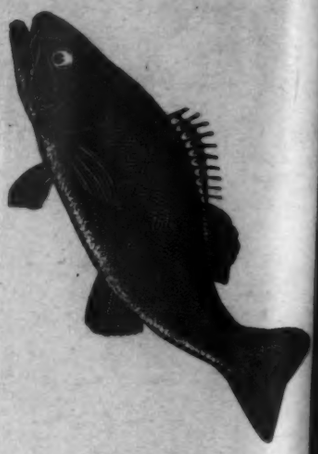
EXHIBIT & TRADING CO., Main Office, 72 Henry St., Liverpool, England

DID—YOU EVER NOTICE LITTLE IS EVER SAID About ROOFING TIN OF MODERATE COST ALTHOUGH THE NEED OF HAVING IT GOOD is Fully as IMPORTANT as THE HIGHER GRADES. WE HAVE A LARGE SALE FOR A BRAND CALLED "SECURITY" THAT IS MADE IN OUR OWN MILLS, BY WELSH TIN PLATE WORKERS BY THE SAME PROCESSES THROUGHOUT AS WERE USED IN TURNING out THE GENUINE IMPORTED "LILY" AND "WORCESTER"

Follansbee Brothers Company Pittsburgh Louisville Buffalo Etc Etc

A sample box or two will show you. Don't bother about the price—It will be right.

PFLUEGER'S Fishing Tackle



Hooks, Flies, Trolls, Spinners, Phantoms, Reels, Furnished Lines, Everything in Fishing Tackle.

NOTICE—Free to any Dealer in Sporting Goods. Sent Express Prepaid, 170-Page Illustrated Catalogue No. F25, and Metal Fish Sign in 8-Color Lithograph

The Enterprise Mfg. Co.,

AKRON, OHIO, U. S. A.

$25 ON 5 TON is what you can save. We make all kinds of scales. Write for prices.

Also B. B. PUMPS and WIND MILLS

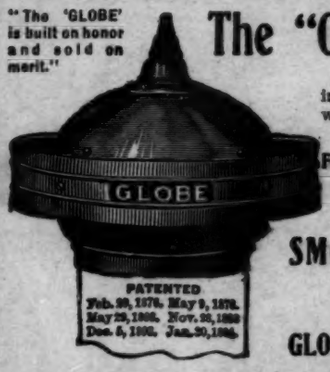
Beckman Bros., Des Moines, Ia.

No dealer may call his stock complete without the

STAR EXPANSION BOLT COMPANY

147 Cedar Street, New York
142 Lake Street, Chicago

"The 'GLOBE' is built on honor and sold on merit."



The "GLOBE" Ventilator

in COPPER, GALVANIZED IRON and with Glass Tops for Skylight purposes.

For Perfectly Ventilating Schools, Churches, Halls, Mills, Factories and Audience Rooms of Every Character

SMOKY CHIMNEYS CURED

"GLOBE" Ventilated Ridges. Send for Pamphlet.

Manufactured by

GLOBE VENTILATOR CO., Troy, N.Y.

DELTA FILES

TRADE MARK DELTA

DELTA FILE WORKS
CARVER File Company
PHILADELPHIA, PA.

FILES OF QUALITY

An independent organization not connected with the trust in any form, shape or manner.

The ECLIPSE Nested Stove Pipe Thimble

BEST ON THE MARKET

PATENT PENDING

Saves 80 per cent. of room.
Is stronger than a hand made riveted thimble.
Is always ready to hook together.
Is made so that the lug passes through two slots and then tied.
The lug is always on top; therefore the LUG is not an objection to the entering stove pipe.
It is always kept nice and clean in a box: therefore no unsightly, rusty looking thimbles to adorn the stores. Galvanized iron; 5, 6 and 7 inch.

STUBER & KUCK, Manufacturers of Pieced Tinware and all Styles Flour Sifters. Peoria, Ill.

Watch for our next advt.

Tinners Find Employment By advertising and using THE Powers Automatic Chimney Tops

They make chimneys draw, give tinners employment making stocks and give the dealers profit.

Sold by Hardware Jobbers and Dealers.

Made only by

POWERS BROS.
Streator, Ill.

This cut free to dealers.

THE "CENTENNIAL" RAIN-WATER CUT-OFF

The strongest, most durable and cheapest CUT-OFF on the market.

The only single cut off made to fit Corrugated and plain pipe and which can be used without extra pipe or elbows. For sale by all leading jobbers.

Patent applied for.

Manufactured only by

COONEY & GEIGER
19 and 21 East South Street, Indianapolis